

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

In the Matter of

Expanding Flexible Use of the 3.7 GHz to 4.2 GHz Band

Eligible Satellite Operator Transition Plans for the 3.7-4.2 GHz Band

GN Docket No. 18-122

GN Docket No. 20-173

TRANSITION PLAN OF EUTELSAT S.A.

Pursuant to Section 27.1412(d) of the Commission's rules,¹ Eutelsat S.A. ("Eutelsat") hereby submits this Transition Plan describing the process it intends to follow to effect the relocation of its customers from the 3.7-4.0 GHz band to the 4.0-4.2 GHz band in the contiguous United States ("CONUS"), as required by the Commission's *C-band Order* in the above-captioned proceeding.

Eutelsat has separately filed a Petition for Expedited Reconsideration or Clarification, in which it has requested that the Commission confirm that eligible replacement satellite costs are limited to satellites operating only in the 4.0-4.2 GHz band (and corresponding uplink band) and covering only the CONUS. Eutelsat further requested that the Commission requires each such subsidized satellite to serve the CONUS for the duration of its useful life, and that the Commission specifically clarifies that the costs of spare satellites and "backup" launches are ineligible.² Eutelsat also appreciates the decision of the Wireless Telecommunications Bureau to extend to June 19, 2020, the deadline for filing this Transition Plan, giving Eutelsat the opportunity to refine and improve this Transition Plan in light of further review of the *C-band Order* and additional *ex parte* discussions with the Commission staff.³

¹ 47 C.F.R. § 27.1412(d); see *Expanding Flexible Use of the 3.7 to 4.2 GHz Band*, GN Docket No. 18-122, Report and Order and Order of Proposed Modification, FCC 20-22, 35 FCC Rcd 2343 (2020) ("C-band Order"), appeals pending.

² Eutelsat Petition for Expedited Reconsideration or Clarification, GN Docket No. 18-122 (filed May 26, 2020), at 6-8; Eutelsat Notice of *Ex Parte* Communication, GN Docket No. 18-122 (filed June 8, 2020), at 1.

³ *Expanding Flexible Use of the 3.7 to 4.2 GHz Band*, GN Docket No. 18-122, Order, DA 20-621 (Wir. Tel. Bur., rel. June 12, 2020).

Given that the Commission has not yet acted on Eutelsat's Reconsideration Petition, this Transition Plan reflects Eutelsat's best estimate of the path of its relocation effort. Eutelsat anticipates the need for updates, including to resolve deficiencies or incorporate additional Commission guidance, through August 14, 2020, as contemplated under the Commission's rules.⁴

This Transition Plan covers the following elements required by the Commission's rules or otherwise specified in the *C-band Order*:⁵

1. All Existing Space Stations with Operations that Will Need to be Transitioned to Operations Above 4000 MHz

The four Eutelsat space stations to be transitioned to operations above 4000 MHz are as shown in **Exhibit A**. Eutelsat operates a total of six satellites that serve the United States through its subsidiaries, Satelites Mexicanos, S.A. de C.V. (d/b/a Eutelsat Americas) and ES 172 LLC. Four of those satellites serve the CONUS in the C-band frequencies of 3.7-4.2 GHz and 5.925-6.425 GHz, including three (Eutelsat 113 West A, call sign S2695; Eutelsat 115 West B, call sign S2938; and Eutelsat 117 West A, call sign S2873) licensed in Mexico that Eutelsat Americas operates through Commission grants of U.S. market access, and one (Eutelsat 172B, call sign S3021) that ES 172 LLC operates under a license issued by the Commission.

Two additional satellites, Eutelsat 117 West B (call sign S2926) which Eutelsat Americas operates under a Commission grant of U.S. market access, and Eutelsat 174A (call sign S2610), which ES 172 LLC operates under a Commission-issued license, serve portions of the U.S., but do not offer C-band services in the CONUS.

⁴ 47 C.F.R. § 27.1412(d).

⁵ 47 C.F.R. § 27.1412(d)(1). Section 27.1412(d) requires the Transition Plan to include a description of the seven specific categories of activities and infrastructure needed to accomplish the relocation of C-band services out of the 3.7-4.0 GHz band. The text of the *C-Band Order*, at ¶ 302, states that the Transition Plan should additionally include "a range of estimated costs for the transition, with appropriate itemization."

2. The Number of New Satellites, If Any, that the Space Station Operator Will Need to Launch in Order to Maintain Sufficient Capacity Post-Transition, including Detailed Descriptions of Why Such New Satellites Are Necessary;

The EUTELSAT113 West A satellite (Call Sign S2695) will reach the end of its useful life during the transition. It will need to be de-orbited no later than May 2023. This satellite was not planned to be replaced as such after its end of life; rather, the services would have been rearranged within Eutelsat satellite fleet.

With a 60 percent reduction in C-band spectrum available to serve CONUS customers, Eutelsat will need the full capacity of all its satellites with CONUS coverage, including the unplanned renewal of one satellite at 113° W.L., to maintain “substantially the same or better service” to its CONUS customers using only the 4.0-4.2 GHz band.⁶

Eutelsat is examining configurations and implementation timelines for a replacement satellite for EUTELSAT113 West A. Eutelsat anticipates replacing that satellite in connection with the transition and the cost of doing so is “reasonable” and “necessary,” as defined in the *C-band Order*.⁷

3. The Specific Grooming Plan for Migrating Existing Services Above 4000 MHz, including the Pre- and Post-Transition Frequencies that Each Customer Will Occupy

Eutelsat has prepared a grooming plan containing the required information, which is attached as **Exhibit B**.

4. Any Necessary Technology Upgrades or Other Solutions, Such as Video Compression or Modulation, that the Space Station Operator Intends to Implement

At this time, Eutelsat does not expect that earth station technology upgrades, including compression encoding and modulation equipment, will be required⁸

⁶ *C-band Order* at ¶ 194.

⁷ *Id.* at ¶ 195.

⁸ Eutelsat is continuing to assess the impact of new and emerging technologies on its Transition Plan.

5. The Number and Location of Incumbent Earth Station Antennas Currently Receiving the Space Station Operator’s Transmissions that Will Need to Be Transitioned Above 4000 MHz

In **Exhibit C**, Eutelsat has identified the incumbent earth station antennas that currently are or may be receiving transmissions from Eutelsat space stations, either directly or indirectly.⁹

6. An Estimate of the Number and Location of Incumbent Earth Station Antennas that Will Require Retuning and/or Repointing in Order to Receive Content on New Transponder Frequencies Post-Transition

At this time, Eutelsat estimates that all of the incumbent earth station antennas shown in **Exhibit C** will require retuning in order to function post-transition.

Eutelsat has included in **Exhibit C** certain incumbent earth stations located in areas of the United States outside of the CONUS for which it may incur eligible relocation costs. In the *C-band Order*, the Commission explained that satellite operators may seek reimbursement of the costs of relocating services outside of the CONUS, if “the system modifications for which they seek reimbursement [are] a direct result of the transition in the contiguous United States to make spectrum available for flexible use.”¹⁰ Many of the non-CONUS incumbent earth stations shown in **Exhibit C** are licensed only to receive transmissions from specific satellites using a portion of the C-band spectrum, rather than full-band, full-arc licenses common elsewhere. To the extent that these non-CONUS earth stations need to be retuned to frequencies or potentially re-pointed to satellites that are not authorized under their current licenses, Eutelsat will be obligated to incur costs of, among other things, additional frequency coordination and earth station license modifications. Although those costs may not in all cases involve hardware modifications, they

⁹ A portion of the incumbent earth stations shown in Exhibit C are licensed to “indirect” Eutelsat customers (*i.e.*, users that purchase service on a resale basis from Eutelsat’s wholesale customers). Eutelsat expects to continue to refine this list as it gathers more information on which of these earth stations actually receive transmissions from Eutelsat space stations.

¹⁰ *C-band Order* at ¶ 204.

are nevertheless the direct result of the transition within the CONUS, and should be considered eligible for reimbursement.

7. The Specific Timeline by which the Space Station Operator Will Implement the Actions Described in Its Plan

Eutelsat anticipates completing all relocation activities within the Phase I and Phase II relocation deadlines established under the Commission’s rules and the *C-band Order*.¹¹

8. Costs of the Transition

As requested in the text of the *C-band Order*, Eutelsat has prepared an initial “range of estimated costs for the transition, with appropriate itemization,”¹² which is attached as **Exhibit D**. These data are based on the estimates in the Bureau’s draft Cost Catalog, assuming relocation of all of the earth stations identified in **Exhibit C**. Eutelsat’s per-unit costs may increase if, for example, only a portion of the earth stations shown in **Exhibit C** are actually served by Eutelsat and thus within Eutelsat’s relocation responsibilities.

* * * *

Eutelsat requests that the Wireless Competition Bureau approve the foregoing Transition Plan. We look forward to discussing any questions you may have as the transition unfolds.

Respectfully submitted,

/s/ *BOCQUET*

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¹¹ 47 C.F.R. § 27.1412(b).

¹² *C-Band Order* at ¶ 302.

Exhibit A

Space Stations to be Transitioned to Operations Above 4000 MHz

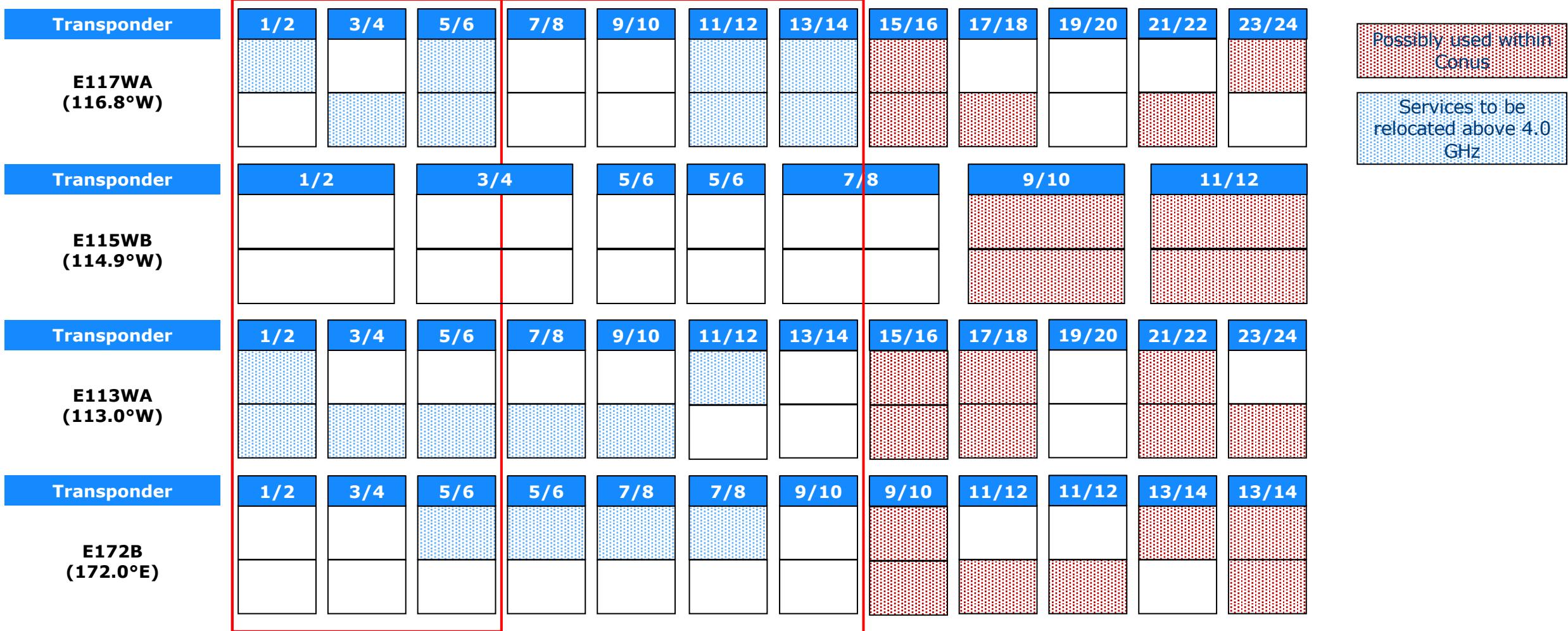
Orbital Position	Satellite Name	Call Sign	Licensee or Grantee	Administration	Service	Frequency Range	Date In-orbit and Operating	Polarization & Coverage Information	Orbital Debris Information	47 CFR 25.140(d) Notice	24/7 Contact	Grant	Notes
113 W.L.	EUTELSAT 113 WEST A	S2695	Satélites Mexicanos S.A. de C.V.	Mexico	FSS	3700-4200 MHz (s-E) 5925-6425 MHz (E-s) 11.7-12.2 GHz (s-E) 14-14.5 GHz (E-s)	5/27/06	SAT-PPL-20060329-00030	SAT-AMD-20060724-00080 (AMD Main & Attach at 2-3) SAT-PPL-20060329-00030 (Technical Narrative at 5-8)	None	Emergency / Interference: +1 (877) 728 6391 +52 (55) 5804 7316 +52 (66) 2147 0900	Grant	Formerly SATMEX 6
114.9 W.L.	EUTELSAT 115 WEST B	S2938	Satélites Mexicanos S.A. de C.V.	Mexico	FSS	3700-4200 MHz (s-E) 5925-6425 MHz (E-s) 11.7-12.2 GHz (s-E) 14-14.5 GHz (E-s)	3/2/15	SAT-PPL-20150227-00008	SAT-PPL-20150227-00008 (Attachment B)	None	Emergency / Interference: +1 (877) 728 6391 +52 (55) 5804 7316 +52 (66) 2147 0900	Grant	Formerly SATMEX 7
116.8 W.L.	EUTELSAT 117 WEST A	S2873	Satélites Mexicanos S.A. de C.V.	Mexico	FSS	3700-4200 MHz (s-E) 5925-6425 MHz (E-s) 11.7-12.2 GHz (s-E) 14-14.5 GHz (E-s)	3/27/13	SAT-PPL-20120803-00140	SAT-PPL-20120803-00140 (Narrative at Section 9)	None	Emergency / Interference: +1 (877) 728 6391 +52 (55) 5804 7316 +52 (66) 2147 0900	Grant	Formerly SATMEX 8
172 E.L.	EUTELSAT 172B	S3021	ES 172 LLC	U.S.A.	FSS	3700-4200 MHz (s-E) 5925-6425 MHz (E-s) 10.95-11.2 GHz (s-E) 11.45-11.7 GHz (s-E) 12.2-12.7 GHz (s-E) 12.7-12.75 GHz (s-E) 14-14.5 GHz (E-s)	12/7/17	SAT-RPL-20170927-00136	SAT-RPL-20170927-00136 (Narrative, Attach. D)	None	Emergency / Interference: +33 (1) 53 98 47 47	Grant	

Exhibit B

Eutelsat Grooming Plan

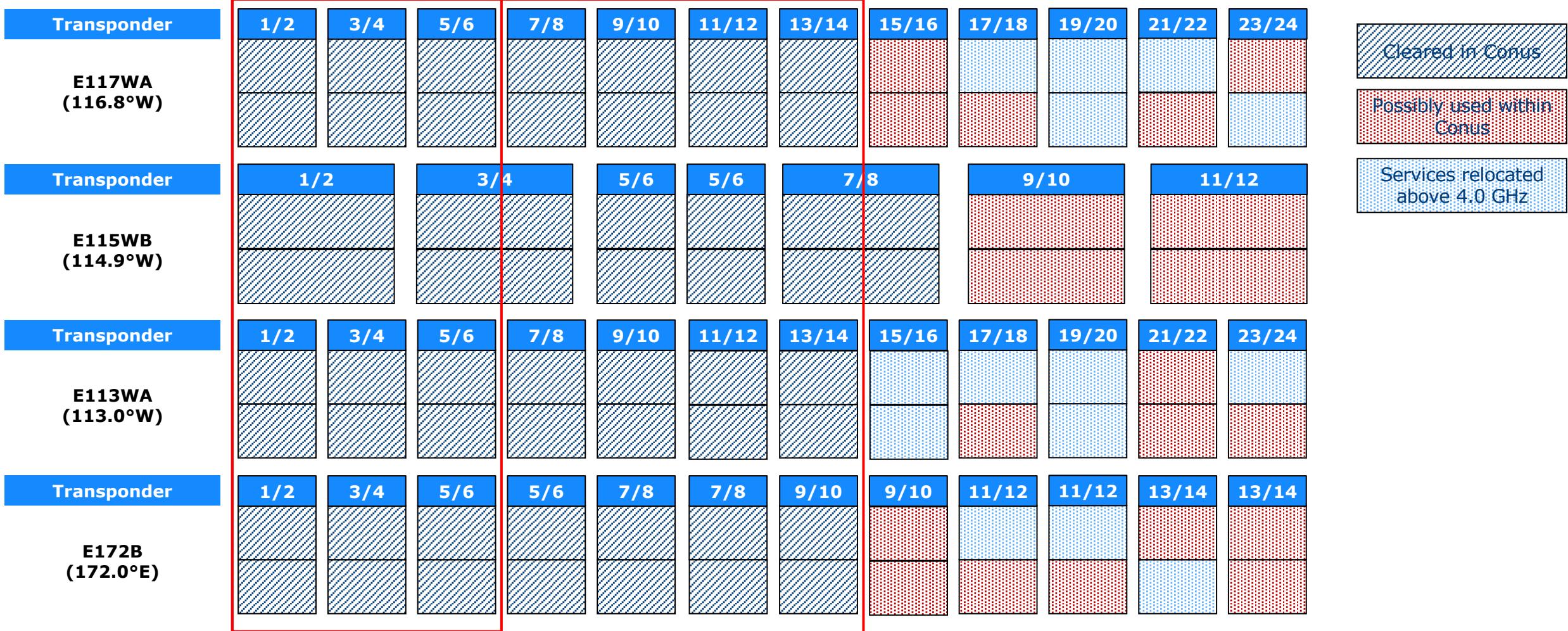
Grooming Plan : Pre-Transition

← 3.70 – 3.82 GHz →
 3.70 – 4.00 GHz



Grooming Plan : Post-Transition

← 3.70 – 3.82 GHz →
 3.70 – 4.00 GHz



Sat	Current txp	Current		After reshuffle	
		frequency	Target txp	frequency	Target downlink
E113WA	C03_N	3773.550	C15		4007.650
E113WA	C19	4070.350	C15		4014.100
E113WA	C17	4040.000	C17		4040.000
E113WA	C01_N	3726.250	C18		4044.250
E113WA	C03_N	3759.900	C18		4048.500
E113WA	C05_N	3791.000	C18		4059.500
E113WA	C05_N	3801.750	C18		4070.250
E113WA	C19	4086.400	C18		4073.500
E113WA	C07_N	3846.500	C19		4073.000
E113WA	C15	4011.000	C19		4091.500
E113WA	C09_N	3880.000	C20		4100.000
E113WA	C22	4140.000	C22		4140.000
E113WA	C01_N	3713.400	C24		4166.500
E113WA	C18	4065.850	C24		4172.500
E113WA	C24	4177.750	C24		4177.750
E113WA	C24	4189.000	C24		4189.000
E115WB	C11	4169.750	C11		4169.750
E117WA	C05	3810.400	C15		4001.400
E117WA	C05	3814.450	C15		4005.450
E117WA	C11	3935.000	C15		4012.000
E117WA	C14	3975.500	C15		4016.500
E117WA	C16	4020.000	C16		4020.000
E117WA	C12	3940.000	C18		4060.000
E117WA	C03	3745.310	C19		4062.510
E117WA	C03	3767.500	C19		4065.620
E117WA	C03	3777.900	C19		4068.720
E117WA	C05	3785.500	C19		4071.320
E117WA	C13	3969.750	C19		4076.070
E117WA	C14	3977.250	C19		4078.570
E117WA	C17	4029.250	C19		4086.070
E117WA	C17	4038.750	C19		4095.570
E117WA	C22	4140.090	C19		4097.910
E117WA	C02	3740.000	C20		4100.000
E117WA	C21	4120.000	C21		4120.000
E117WA	C06	3820.000	C22		4140.000
E117WA	C15	4000.000	C23		4160.000
E172B	C8	3888.910	C9		4125.900
E172B	C8	3915.746	C9		4128.150
E172B	C5	3820.000	C11		4060.000
E172B	C11	4060.000	C13		4140.000

Exhibit C

Earth Stations that Currently Are or May Be Receiving
Eutelsat Space Station Transmissions

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E080084	SES-LIC-20080417-00471	Corporate Satellite Communications Florida Inc.	NJ	1	US Rt 9 W Armstrong Tower, Alpine, Bergen, NJ6520	authorized	6.1	KPC	1	40° 57' 40.4" N	73° 55' 22.5" W	3700	4200	05/27/2023	113°W (E113WA) 116.8°W (E117WA) & Permitted Space Station List	E117WA
KA333	SES-RWL-20181129-03339	Corporate Satellite Communications Florida Inc.	FL	1	7007 N.W. 32ND AVENUE MIAMI, DADE, FL, 33147	authorized	11	KPC 11M	2	25° 50' 14.3" N	80° 14' 58.8" W	3700	4200	01/21/2034		
KA333	SES-RWL-20181129-03339	Corporate Satellite Communications Florida Inc.	FL	1	7007 N.W. 32ND AVENUE MIAMI, DADE, FL, 33147	authorized	11	5263	1	25° 50' 14.3" N	80° 14' 58.8" W	3700	4200	01/21/2034		
KA333	SES-RWL-20181129-03339	Corporate Satellite Communications Florida Inc.	FL	1	7007 N.W. 32ND AVENUE MIAMI, DADE, FL, 33147	authorized	11	110CS	1	25° 50' 14.3" N	80° 14' 58.8" W	3700	4200	01/21/2034		
E180205	SES-REG-20180509-00547	Corporate Satellite Communications Florida Inc.	NJ	1	US Rt 9W Alpine, Bergen, NJ 07645	authorized	6.1	6200	1	40° 57' 41.4" N	73° 55' 23.7" W	3700	4200	1/5/33		
E859956	SES-RWL-20050930-01360	Corporate Satellite Communications Florida Inc.	FL	1	7007 NW 32nd Avenue MIAMI, DADE, FL	authorized	11.3	110CS	1	25° 50' 13" N	80° 14' 58" W	3700	4200	11/10/20		
E859956	SES-RWL-20050930-01360	Corporate Satellite Communications Florida Inc.	FL	1	7007 NW 32nd Avenue MIAMI, DADE, FL	authorized	13	5260	1	25° 50' 13" N	80° 14' 58" W	3700	4200	11/10/20		
E859956	SES-RWL-20050930-01360	Corporate Satellite Communications Florida Inc.	FL	1	7007 NW 32nd Avenue MIAMI, DADE, FL	authorized	5	F-1	1	25° 50' 13" N	80° 14' 58" W	3700	4200	11/10/20		
E859956	SES-RWL-20050930-01360	Corporate Satellite Communications Florida Inc.	FL	1	7007 NW 32nd Avenue MIAMI, DADE, FL	authorized	9.2	920CS	2	25° 50' 13" N	80° 14' 58" W	3700	4200	11/10/20		
E000306	SES-RWL-20120412-00361	MCI Communications Services, Inc	ME	ANDVME	RTE 120 494 ROXBURY POND RD. ANDOVER, OXFORD, ME, 04216	authorized	21	21M-4M	1	44° 38' 1.2" N	70° 41' 51.3" W	3700	4200	04/17/2027	Permitted Space Station List	E113WA
E930190	SES-RWL-20180405-00324	MCI Communications Services, Inc	ME	1	ROUTE 120, 494 ROXBURY POND ANDOVER #6, OXFORD, ME, 04216	authorized	9.3	ES93HS	1	44° 37' 58.2" N	70° 41' 55.3" W	3700	4200	5/6/33		
E990175	SES-RWL-20090507-00562	MCI Communications Services, Inc	VA	1	1295 INDUSTRIAL PARK ROAD QUICKSBURG, SHENADDOAH, VA, 22847	authorized	9	9KPC	2	38° 43' 45.4" N	78° 39' 25.1" W	3700	4200	12/7/24		
E000589	SES-RWL-20170403-00347	MCI Communications Services, Inc	VA	MTJKVA	1295 INDUSTRIAL PARK ROAD QUICKSBURG, SHENADDOAH, VA, 22847	authorized	18.3	1183	1	38° 43' 45.4" N	78° 39' 24.2" W	3700	4200	6/6/32		
E010140	SES-RWL-20170727-00822	MCI Communications Services, Inc	VA	MTJKVA	1295 INDUSTRIAL PARK ROAD QUICKSBURG, SHENADDOAH, VA, 22847	authorized	18.3	18.3KPC	1	38° 43' 45.4" N	78° 39' 25.1" W	3700	4200	6/6/32		
E990177	SES-RWL-20090507-00561	MCI Communications Services, Inc	TX	1	400 INTERNATIONAL PARKWAY RICHARDSON, DALLAS, TX, 75082	authorized	3.8	1381	1	32° 57' 13" N	96° 42' 21" W	3700	4200	12/7/24		
KA221	SES-RWL-20070710-00924	MCI Communications Services, Inc	WA	1	32901 NORTHEAST COUNTY ROAD #16 (I1), YACOLT, CLARK, WA	authorized	18.3	18KPC	1	45° 51' 46.4" N	122° 23' 44.3" W	3625	4200	08/28/2022		
KA323	SES-RWL-20070709-00905	MCI Communications Services, Inc	WA	1	32901 NORTHEAST COUNTY ROAD #16 (I2), YACOLT, CLARK, WA	authorized	18.3	18KPC	1	45° 51' 45.5" N	122° 23' 43.8" W	3625	4200	08/28/2022		
KA370	SES-RWL-20180405-00322	MCI Communications Services, Inc	WA	1	604 EAST HOAG STREET YACOLT, CLARK, WA	authorized	9.2	920CS	1	45° 51' 45" N	122° 23' 39" W	3700	4200	05/28/2033		
E160178	SES-MOD-20170619-00661	UNITED TELEPORTS INC.	FL	Port Saint Lucie	10161 Range Line Rd Port Saint Lucie, St. Lucie, FL, 34987	authorized	3.8	3.8 meter 1383	5	27° 16' 56.5" N	80° 28' 58.6" W	3700	4200	02/13/2032	E117WA & Permitted Space Station List	E117WA
E090157	SES-MOD-20100524-00636	Vitacom Services Corporation	FL	Miami	1100 NW 163rd Drive Miami, Dade, FL, 33169	authorized	4.6	ESA46-124	1	25° 55' 25.7" N	80° 13' 4.6" W	3700	4200	5/1/25	Permitted Space Station List	E117WA
E090157	SES-MOD-20100524-00636	Vitacom Services Corporation	FL	Miami	1100 NW 163rd Drive Miami, Dade, FL, 33169	authorized	3.8	1383	1	25° 55' 25.7" N	80° 13' 4.6" W	3700	4200	5/1/25		
E120006	SES-MOD-20170512-00554	X2nSat	CA	1	1310 Redwood Way (1310 PET) Petaluma, Sonoma, CA, 94954	authorized	6.2	6.2M RING FOCUS, MOT	1	38° 16' 27.2" N	122° 39' 48.5" W	3700	4200	02/14/2027	Permitted Space Station List	E115WB
E060256	SES-LIC-20060629-01087	PSSI Global Services LLC	PA	1	201 Brownstown Road New Kensington, Allegheny, PA, 15068	authorized	11.3	1100CS	1	40° 32' 2.3" N	79° 45' 19.9" W	3700	4200	8/8/21	Permitted Space Station List	E113WA
E060417	SES-LIC-20061114-02003	PSSI Global Services LLC	NV	1	4415 Wagon Trail Ave NA Las Vegas, Clark, NV, 89118	authorized	5.5	Offset	1	-	-	3700	4200	12/28/2021		
E080014	SES-LIC-20080115-00053	PSSI Global Services LLC	PA	1	201 Brownstown Road New Kensington, Allegheny, PA	authorized	9.1	8009A	1	40° 32' 1" N	79° 45' 12" W	3700	4200	03/18/2023		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E080014	SES-LIC-20080115-00053	PSSI Global Services LLC	PA	1	201 Brownstown Road New Kensington, Allegheny, PA	authorized	9.1	8009a	1	40° 32' 1" N	79° 45' 13" W	3700	4200	03/18/2023		
E871627	SES-RWL-20070226-00265	PSSI Global Services LLC	PA	1	NEW KENSINGTON, ALLEGHENY, PA	authorized	9.1	MODEL ESA91H-46	1	40° 32' 1" N	79° 45' 17" W	3700	4200	05/15/2022		
E880053	SES-RWL-20070927-01331	PSSI Global Services LLC	PA	1	201 BROWNTOWN ROAD NEW KENSINGTON, ALLEGHENY, PA, 15068	authorized	7	700CS	1	40° 32' 2.2" N	79° 45' 17.2" W	3700	4200	4/12/22		
E880053	SES-RWL-20070927-01331	PSSI Global Services LLC	PA	1	201 BROWNTOWN ROAD NEW KENSINGTON, ALLEGHENY, PA, 15068	authorized	9.2	920CS	1	40° 32' 2.2" N	79° 45' 17.2" W	3700	4200	4/12/22		
E880053	SES-RWL-20070927-01331	PSSI Global Services LLC	PA	1	201 BROWNTOWN ROAD NEW KENSINGTON, ALLEGHENY, PA, 15068	authorized	4.5	4.5 KPC	1	40° 32' 2.2" N	79° 45' 17.2" W	3700	4200	4/12/22		
E890933	SES-RWL-20090721-00894	PSSI Global Services LLC	PA	1	201 BROWNTOWN ROAD NEW KENSINGTON, WEST MORELAND, PA	authorized	13	1130C	1	40° 32' 1" N	79° 45' 17" W	3700	4200	6/10/24		
E890933	SES-RWL-20090721-00894	PSSI Global Services LLC	PA	1	201 BROWNTOWN ROAD NEW KENSINGTON, WEST MORELAND, PA	authorized	4.1	"18"FT OFFSAT	1	40° 32' 1" N	79° 45' 17" W	3700	4200	6/10/24		
E890933	SES-RWL-20090721-00894	PSSI Global Services LLC	PA	1	201 BROWNTOWN ROAD NEW KENSINGTON, WEST MORELAND, PA	authorized	9.1	ESA91H-46	1	40° 32' 1" N	79° 45' 17" W	3700	4200	6/10/24		
E910067	SES-RWL-20101021-01310	PSSI Global Services LLC	PA	1	201 BROWNTOWN ROAD NEW KENSINGTON, ALLEGHENY, PA	authorized	9.2	MODEL 920CS	1	40° 32' 1" N	79° 45' 15" W	3700	4200	12/28/2025		
E180633	SES-REG-20180604-01125	Radio Vision Cristiana Management	FL	1	10850 Wheeler Rd (WWCL Recieve) LaBelle, Hendry, FL 33935	authorized	3.7	1374-995	1	26° 36' 8.0" N	81° 33' 33.0" W	3900	4200	6/6/33		Permitted Space Station List
E180105	SES-REG-20180424-00384	Radio Vision Cristiana Management	NY	WRVP-AM	150 Radio Circle Mt. Kisco, Westchester, NY, 10549	authorized	3.7	1374-995	2	41° 11' 47.3" N	73° 44' 20.5" W	3700	4200	04/24/2033		
E030159	SES-RWL-20181106-03211	Speedcast Communications Inc., as a debtor-in-possession	TX	Gunnison Spar	GULF OF MEXICO, GULF OF MEXICO, TX	authorized	2.4	9797	1	27° 18' 19.0" N	93° 32' 20.0" W	4166.7	4172.8	01/13/2034		Permitted Space Station List
E030170	SES-RWL-20180919-02780	Speedcast Communications Inc., as a debtor-in-possession	TX	1	4400 SOUTH SAM HOUSTON PARKWAY HOUSTON, HARRIS, TX, 77048	authorized	7.6	7.6 ESA	1	29° 35' 54.0" N	20° 50.0" W	3810.9	3818	10/14/2033		
E030170	SES-RWL-20180919-02780	Speedcast Communications Inc., as a debtor-in-possession	TX	1	4400 SOUTH SAM HOUSTON PARKWAY HOUSTON, HARRIS, TX, 77048	authorized	2.4	9797	1	29° 35' 54.0" N	20° 50.0" W	3810.9	3818	10/14/2033		
E030170	SES-RWL-20180919-02780	Speedcast Communications Inc., as a debtor-in-possession	TX	1	4400 SOUTH SAM HOUSTON PARKWAY HOUSTON, HARRIS, TX, 77048	authorized	4.5	4.5M	1	29° 35' 54.0" N	20° 50.0" W	3810.9	3818	10/14/2033		
E030170	SES-RWL-20180919-02780	Speedcast Communications Inc., as a debtor-in-possession	TX	1	4400 SOUTH SAM HOUSTON PARKWAY HOUSTON, HARRIS, TX, 77048	authorized	7.6	7.6 ESA	1	29° 35' 54.0" N	20° 50.0" W	3974	3977	10/14/2033		
E030170	SES-RWL-20180919-02780	Speedcast Communications Inc., as a debtor-in-possession	TX	1	4400 SOUTH SAM HOUSTON PARKWAY HOUSTON, HARRIS, TX, 77048	authorized	2.4	9797	1	29° 35' 54.0" N	20° 50.0" W	3974	3977	10/14/2033		
E030170	SES-RWL-20180919-02780	Speedcast Communications Inc., as a debtor-in-possession	TX	1	4400 SOUTH SAM HOUSTON PARKWAY HOUSTON, HARRIS, TX, 77048	authorized	4.5	4.5M	1	29° 35' 54.0" N	20° 50.0" W	3974	3977	10/14/2033		
E190755	SES-REG-20180917-04417	Overon America	FL	1	7291 NW 74th St. Miami, Miami-Dade, FL, 33166	authorized	5.2	5B	3	25° 50' 28.0" N	80° 18' 59.0" W	3751	3753.9	09/14/2033	Permitted Space Station List	E117WA
E201284	SES-REG-20181027-06666	Azteca Broadcasting Corporation	UT	Site 1	4215 W 4000 S Salt Lake City Ut West Haven, Weber, UT, 84401	authorized	2.4	1240	1	41° 11' 25.9" N	112° 4' 51.9" W	3700	4200	10/17/2033	Permitted Space Station List	E113WA
E050252	SES-MOD-20170920-01041	SES Government Solutions, Inc.	MD	1	4231 Suitland Road Suitland Prince Georges, MD, 20746	authorized	6.3	KXC-120	2	38° 51' 6.6" N	76° 56' 12.7" W	3700	4200	10/19/2020	172°E (E172B)	E172B
E100044	SES-LIC-20100326-00356	SES Government Solutions, Inc.	MD	1	2323 Grimville Road Mount Airy, USA, MD, 21771	authorized	3.8	1383	1	39° 22' 33.5" N	77° 4' 51.5" W	3700	4200	10/5/25		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E000265	SES-RWL-20100528-00657	ESPN Productions, Inc.	NC	1	11001 RUSHMORE DRIVE, (SITE #2) CHARLOTTE, MECKLENBURG, NC	authorized	3.8	3.8 PF	1	35° 3' 30.9" N	80° 51' 45.0" W	3700	4200	1/6/25	Permitted Space Station List	E113WA
E000265	SES-RWL-20100528-00657	ESPN Productions, Inc.	NC	1	11001 RUSHMORE DRIVE, (SITE #2) CHARLOTTE, MECKLENBURG, NC	authorized	4.5	PRIME FOCUS	1	35° 3' 30.9" N	80° 51' 45.0" W	3700	4200	1/6/25		
E000264	SES-RWL-20100528-00658	ESPN Productions, Inc.	NC	1	11001 RUSHMORE DRIVE, (SITE #1) CHARLOTTE, MECKLENBURG, NC	authorized	3.8	3.8 PF	1	35° 3' 31.8" N	80° 51' 44.5" W	3700	4200	1/6/25		
E000264	SES-RWL-20100528-00658	ESPN Productions, Inc.	NC	1	11001 RUSHMORE DRIVE, (SITE #1) CHARLOTTE, MECKLENBURG, NC	authorized	4.5	PRIME FOCUS	1	35° 3' 31.8" N	80° 51' 44.5" W	3700	4200	1/6/25		
E180721	SES-REG-20180606-01315	FOX BROADCASTING COMPANY	CA	1	10301 W. Pico Blvd (4.5M/3.8M) Los Angeles, Los Angeles, CA, 90035	authorized	3.8	3.8M	1	34° 3' 0.0" N	118° 24' 47.3" W	3700	4200	6/6/33	Permitted Space Station List	E113WA
E180721	SES-REG-20180606-01315	FOX BROADCASTING COMPANY	CA	1	10301 W. Pico Blvd (4.5M/3.8M) Los Angeles, Los Angeles, CA, 90035	authorized	4.5	ESA45.46A	1	34° 3' 0.0" N	118° 24' 47.3" W	3700	4200	6/6/33		
E180721	SES-REG-20180606-01315	FOX BROADCASTING COMPANY	CA	1	10301 W. Pico Blvd (4.5M/3.8M) Los Angeles, Los Angeles, CA, 90035	authorized	4.5	4.5M	1	34° 3' 0.0" N	118° 24' 47.3" W	3700	4200	6/6/33		
E960222	SES-MOD-20181004-03639	DENALI 20020, LLC	WA	1	66C TELEPORT DRIVE BREWSTER, OKANOGAN, WA, 98812	authorized	6.1	HERO	1	48° 8' 50.5" N	119° 41' 33.2" W	3700	4200	07/19/2021	Permitted Space Station List	E113WA
E891020	SES-MOD-20181004-03664	DENALI 20020, LLC	WA	1	66C TELEPORT DRIVE BREWSTER, OKANOGAN, WA, 98812	authorized	6.1	6.1KPC	1	48° 8' 47.5" N	119° 41' 31.2" W	3700	4200	07/19/2021		
WB81	SES-MOD-20150728-00478	DENALI 20020, LLC	NJ	1	100 EDSALL DRIVE VERNON, SUSSEX, NJ, 07461	authorized	13	1	1	41° 12' 6.3" N	74° 31' 34.6" W	3700	4200	08/28/2026		
WB81	SES-MOD-20150728-00478	DENALI 20020, LLC	NJ	1	100 EDSALL DRIVE VERNON, SUSSEX, NJ, 07461	authorized	13.1	13 KPC	1	41° 12' 6.3" N	74° 31' 34.6" W	3700	4200	08/28/2026		
WB81	SES-MOD-20150728-00478	DENALI 20020, LLC	NJ	1	100 EDSALL DRIVE VERNON, SUSSEX, NJ, 07461	authorized	11	8007	1	41° 12' 6.3" N	74° 31' 34.6" W	3700	4200	08/28/2026		
WB81	SES-MOD-20150728-00478	DENALI 20020, LLC	NJ	1	100 EDSALL DRIVE VERNON, SUSSEX, NJ, 07461	authorized	12	ESA12-46	1	41° 12' 6.3" N	74° 31' 34.6" W	3700	4200	08/28/2026		
WB81	SES-MOD-20150728-00478	DENALI 20020, LLC	NJ	1	100 EDSALL DRIVE VERNON, SUSSEX, NJ, 07461	authorized	11	1100C	1	41° 12' 6.3" N	74° 31' 34.6" W	3700	4200	08/28/2026		
WB81	SES-MOD-20150728-00478	DENALI 20020, LLC	NJ	1	100 EDSALL DRIVE VERNON, SUSSEX, NJ, 07461	authorized	13	5270	1	41° 12' 6.3" N	74° 31' 34.6" W	3700	4200	08/28/2026		
E090010	SES-LIC-20090123-00063	NASCAR PRODUCTION, LLC	NC	1	400 Akins Drive Concord, Cabarrus, 28027	Surrender of Authorization	7.6	Andrew/ASC	1	35° 24' 32.5" N	80° 42' 43.4" W	3700	4200	6/3/24	Permitted Space Station List	E113WA
E050064	SES-LIC-20050308-00289	Fox News Network LLC	NJ	1	43 Meadowlands Parkway 9 Broadcast Plaza Secaucus, Bergen, NJ, 07096	authorized	4.8	4.8 KPC	1	40° 47' 42.8"	74° 4' 10.2" W	3700	4200	04/20/2020		
E100148	SES-MOD-20180606-01290	Fox News Network LLC	NJ	1	9 BROADCAST PLAZA SECAUCUS, HUDSON, NJ, 07096	authorized	4.5	ESA45-46A	2	40° 47' 43.1" N	74° 4' 11.3" W	3700	4200	6/12/25		
E880593	SES-RWL-20081001-01269	Fox News Network LLC	NJ	1	SECAUCUS, HUDSON, NJ	authorized	6.1	HARRIS	3	40° 47' 46.0" N	74° 4' 10.0" W	3700	4200	9/12/23	Permitted Space Station List	E113WA
E180193	SES-REG-20180503-00529	CBS COMMUNICATIONS SERVICES INC.	NY	1	Wading River Hollow Rd. Ridge, Suffolk, NY, 11961	authorized	3.8	3.8 Meter	4	40° 53' 50.0" N	72° 54' 55.6" W	3700	4200	3/5/33		
KA452	SES-MOD-20150410-00209	GLOBECAST AMERICA INCORPORATED	CA	1	10525 W. WASHINGTON BLVD. CULVER CITY, LOS ANGELES, CA, 90232	authorized	9.2	920CS	1	34° 1' 6.0" N	118° 24' 16.3" W	3700	4200	07/17/2024	Permitted Space Station List	E117WA
KA224	SES-MOD-20180720-02556	GLOBECAST AMERICA INCORPORATED	CA	1	10525 W. WASHINGTON BLVD. CULVER CITY, LOS ANGELES, CA, 90232	authorized	4.6	4.6 METER	1	34° 1' 5.4" N	118° 24' 14.2" W	3700	4200	8/9/23		
E910561	SES-MOD-20181017-03449	GLOBECAST AMERICA INCORPORATED	CA	1	10525 W. WASHINGTON BLVD. CULVER CITY, LOS ANGELES, CA, 90232	authorized	3.7	ES37K-C	1	34° 1' 4.6" N	118° 24' 15.9" W	3700	4200	10/25/2026		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E910561	SES-MOD-20181017-03449	GLOBECAST AMERICA INCORPORATED	CA	1	10525 W. WASHINGTON BLVD. CULVER CITY, LOS ANGELES, CA, 90232	authorized	3	3 METER	1	34° 1' 4.6" N	118° 24' 15.9" W	3700	4200	10/25/2026		
E910561	SES-MOD-20181017-03449	GLOBECAST AMERICA INCORPORATED	CA	1	10525 W. WASHINGTON BLVD. CULVER CITY, LOS ANGELES, CA, 90232	authorized	4.5	4.5 METER	1	34° 1' 4.6" N	118° 24' 15.9" W	3700	4200	10/25/2026		
E881143	SES-RWL-20050506-00548	GLOBECAST AMERICA INCORPORATED	CA	1	10525 W. WASHINGTON BLVD. CULVER CITY, LOS ANGELES, CA, 90232	authorized	10	8002A	1	34° 1' 6.0" N	118° 24' 11.0" W	3700	4200	4/6/20		
E881143	SES-RWL-20050506-00548	GLOBECAST AMERICA INCORPORATED	CA	1	10525 W. WASHINGTON BLVD. CULVER CITY, LOS ANGELES, CA, 90232	authorized	9.2	920CS	1	34° 1' 6.0" N	118° 24' 11.0" W	3700	4200	4/6/20		
E881143	SES-RWL-20050506-00548	GLOBECAST AMERICA INCORPORATED	CA	1	10525 W. WASHINGTON BLVD. CULVER CITY, LOS ANGELES, CA, 90232	authorized	7	700CH	1	34° 1' 6.0" N	118° 24' 11.0" W	3700	4200	4/6/20		
E881143	SES-RWL-20050506-00548	GLOBECAST AMERICA INCORPORATED	CA	1	10525 W. WASHINGTON BLVD. CULVER CITY, LOS ANGELES, CA, 90232	authorized	4.1	18 FT. OFFSAT	1	34° 1' 6.0" N	118° 24' 11.0" W	3700	4200	4/6/20		
E7754	SES-RWL-20050506-00549	GLOBECAST AMERICA INCORPORATED	CA	1	10525 W. WASHINGTON BLVD. CULVER CITY, LOS ANGELES, CA, 90232	authorized	10	8002A	1	34° 1' 5.0" N	118° 24' 11.0" W	3700	4200	4/6/20		
E7754	SES-RWL-20050506-00549	GLOBECAST AMERICA INCORPORATED	CA	1	10525 W. WASHINGTON BLVD. CULVER CITY, LOS ANGELES, CA, 90232	authorized	9.2	920CS	1	34° 1' 5.0" N	118° 24' 11.0" W	3700	4200	4/6/20		
E7754	SES-RWL-20050506-00549	GLOBECAST AMERICA INCORPORATED	CA	1	10525 W. WASHINGTON BLVD. CULVER CITY, LOS ANGELES, CA, 90232	authorized	7	8010A/8010C	2	34° 1' 5.0" N	118° 24' 11.0" W	3700	4200	4/6/20		
KA222	SES-MOD-20181017-03448	GLOBECAST AMERICA INCORPORATED	CA	1	10525 W. WASHINGTON BLVD. CULVER CITY, LOS ANGELES, CA, 90232	authorized	2.5	2.5 METER	1	34° 1' 6.0" N	118° 24' 14.3" W	3700	4200	07/29/2034		
KA222	SES-MOD-20181017-03448	GLOBECAST AMERICA INCORPORATED	CA	1	10525 W. WASHINGTON BLVD. CULVER CITY, LOS ANGELES, CA, 90232	authorized	3.6	3.6 METER	1	34° 1' 6.0" N	118° 24' 14.3" W	3700	4200	9/7/34		
E060431	SES-MOD-20130509-00378	Globecomm License Sub LLC	NY	1	45 Oser Avenue Hauppauge, Suffolk, NY, 11788	authorized	9.3	9.3ESA	2	40° 48' 55.6" N	73° 14' 17.6" W	3700	4200	6/1/22	Permitted Space Station List	E113WA
E060431	SES-MOD-20130509-00378	Globecomm License Sub LLC	NY	1	45 Oser Avenue Hauppauge, Suffolk, NY, 11788	authorized	4.5	ASC SIGNAL	1	40° 48' 55.6" N	73° 14' 17.6" W	3700	4200	6/1/22		
E181967	SES-REG-20180807-03373	Globecomm License Sub LLC	NY	1	45 Oser Avenue Hauppauge, Suffolk, NY, 11788	authorized	5	SIMULSAT	1	40° 48' 54.2" N	73° 14' 12.2" W	3700	4200	7/8/33		
E010002	SES-MOD-20180615-01404	COMCAST OF MARYLAND, LLC	MD	1	1107 RITCHIE ROAD CAPITOL HEIGHTS, PRINCE GEORGES, MD,	authorized	11	8345 METER	11	38° 52' 27.7" N	76° 51' 28.0" W	3700	4200	12/26/2025	Permitted Space Station List	E113WA
E940244	SES-LIC-20050711-00894	BFI LICENSES, LLC	CT	1	652 Glenbrook Road Stamford, Fairfield, CT, 06906	authorized	11	8007	1	41° 4' 34.3" N	73° 31' 12.4" W	3700	4200	08/29/2020		
E940243	SES-LIC-20050711-00895	BFI LICENSES, LLC	CT	1	652 Glenbrook Road Stamford, Fairfield, CT, 06906	authorized	11	8007-2	3	41° 4' 32.3" N	73° 31' 12.4" W	3700	4200	08/29/2020		
E940242	SES-LIC-20050711-00896	BFI LICENSES, LLC	CT	1	652 Glenbrook Road Stamford, Fairfield, CT, 06906	authorized	11	8007	1	41° 4' 33.3" N	73° 31' 14.4" W	3700	4200	08/29/2020		

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E120069	SES-LIC-20120417-00371	BFI LICENSES, LLC	CT	1	23 Research Drive Stamford Fairfield, CT, 06906	authorized	11	11KPC	1	41° 4' 33.4" N	73° 31' 13.0" W	3700	4200	4/6/27			
E970068	SES-RWL-20070426-00520	BFI LICENSES, LLC	CT	1	23 Research Drive Stamford Fairfield, CT, 06906	authorized	11.3	1100CS	1	41° 4' 36.0" N	73° 31' 16.0" W	3700	4200	05/23/2022			
E970068	SES-RWL-20070426-00520	BFI LICENSES, LLC	CT	1	23 Research Drive Stamford Fairfield, CT, 06906	authorized	11.3	1100CS	1	41° 4' 36.0" N	73° 31' 16.0" W	3700	4200	05/23/2022			
E970070	SES-RWL-20070426-00521	BFI LICENSES, LLC	CT	1	23 Research Drive Stamford Fairfield, CT, 06906	authorized	11.3	1100CS	4	41° 4' 36.0" N	73° 31' 16.0" W	3700	4200	05/23/2022			
E4730	SES-RWL-20170913-01014	BFI LICENSES, LLC	CT	1	250 Harbor Drive Stamford Fairfield, CT, 06904	authorized	11	8016	2	41° 4' 32.3" N	73° 31' 13.4" W	3700	4200	3/9/22			
E4730	SES-RWL-20170913-01014	BFI LICENSES, LLC	CT	1	250 Harbor Drive Stamford Fairfield, CT, 06904	authorized	10	800-2	1	41° 4' 32.3" N	73° 31' 13.4" W	3700	4200	3/9/22			
E4730	SES-RWL-20170913-01014	BFI LICENSES, LLC	CT	1	250 Harbor Drive Stamford Fairfield, CT, 06904	authorized	9	KPC	2	41° 4' 32.3" N	73° 31' 13.4" W	3700	4200	3/9/22			
E060398	SES-LIC-20061030-01926	BFI LICENSES, LLC	GA	1	3845 PLEASANTDALE ROAD ATLANTA, DEKALB, GA, 30340	authorized	9	KPC	2	33° 53' 46.8" N	84° 14' 18.8" W	3700	4200	11/12/21			
E060436	SES-LIC-20061212-02136	BFI LICENSES, LLC	GA	1	3845 PLEASANTDALE ROAD ATLANTA, DEKALB, GA, 30340	authorized	9.1	ESA91-46	3	33° 53' 47.2" N	84° 14' 22.0" W	3700	4200	01/23/2022			
E060437	SES-LIC-20061214-02159	BFI LICENSES, LLC	GA	1	3845 PLEASANTDALE ROAD ATLANTA, DEKALB, GA, 30340	authorized	8.1	KPC	1	33° 53' 47.0" N	84° 14' 22.8" W	3700	4200	01/23/2022			
E070011	SES-MOD-20070320-00377	BFI LICENSES, LLC	GA	1	3845 PLEASANTDALE ROAD ATLANTA, DEKALB, GA, 30340	authorized	4.1	OFFSAT	1	33° 53' 48.8" N	84° 14' 18.8" W	3700	4200	02/27/2022		Permitted Space Station List	E113WA
E070011	SES-MOD-20070320-00377	BFI LICENSES, LLC	GA	1	3845 PLEASANTDALE ROAD ATLANTA, DEKALB, GA, 30340	authorized	9	KPC	1	33° 53' 48.8" N	84° 14' 18.8" W	3700	4200	02/27/2022			
E070011	SES-MOD-20070320-00377	BFI LICENSES, LLC	GA	1	3845 PLEASANTDALE ROAD ATLANTA, DEKALB, GA, 30340	authorized	11	KPC	1	33° 53' 48.8" N	84° 14' 18.8" W	3700	4200	02/27/2022			
E970396	SES-RWL-20070921-01306	DISH BROADCASTING CORPORATION	AZ	1	801 NORTH AMERICAN SKY BOULEVARD GILBERT, MARICOPA	authorized	6.1	KPC	1	33° 22' 0.5" N	111° 48' 51.0" W	3700	4200	12/12/22			
E970396	SES-RWL-20070921-01306	DISH BROADCASTING CORPORATION	AZ	1	801 NORTH AMERICAN SKY BOULEVARD GILBERT, MARICOPA	authorized	7	700-70TCK	1	33° 22' 0.5" N	111° 48' 51.0" W	3700	4200	12/12/22			
E000697	SES-MOD-20180410-00332	DISH BROADCASTING CORPORATION	IL	1	6723 W. STEGER ROAD MONEE, WILL, IL 60449	authorized	9.1	ESA91-46	1	41° 28' 1.8" N	87° 46' 36.1" W	3700	4200	12/1/26			
E000697	SES-MOD-20180410-00332	DISH BROADCASTING CORPORATION	IL	1	6723 W. STEGER ROAD MONEE, WILL, IL 60449	authorized	11	5260	2	41° 28' 1.8" N	87° 46' 36.1" W	3700	4200	12/1/26			
E2981	SES-MOD-20180410-00335	DISH BROADCASTING CORPORATION	IL	1	6723 W. STEGER ROAD MONEE, WILL, IL 60449	authorized	10	ESA10-46B	1	41° 28' 2.0" N	87° 46' 34.1" W	3700	4200	8/4/26			
E2981	SES-MOD-20180410-00335	DISH BROADCASTING CORPORATION	IL	1	6723 W. STEGER ROAD MONEE, WILL, IL 60449	authorized	9.1	ESA91-46	1	41° 28' 2.0" N	87° 46' 34.1" W	3700	4200	8/4/26			
E980117	SES-RWL-20080115-00055	DISH BROADCASTING CORPORATION	WY	1	530 ECHOSTAR DRIVE CHEYENNE, LARAMIE, WY, 82007	authorized	9	9 KPC	1	41° 7' 57.0" N	104° 44' 4.2" W	3700	4200	03/13/2023			
E130223	SES-REG-20131108-00948	GRANDE COMMUNICATIONS NETWORKS, LLC	TX	1	401 CARLSON CIRCLE SAN MARCOS, HAYS, TX, 78666	authorized	4.5	8345	1	29° 54' 27.7" N	97° 54' 28.1" W	3700	4200	8/11/28		Permitted Space Station List	E113WA
E140001	SES-REG-20140104-00001	GRANDE COMMUNICATIONS NETWORKS, LLC	TX	1	7200 IMPERIAL DRIVE WACO, MCLELLAN, TX, 76712	authorized	4.5	8345	1	31° 29' 50.6" N	97° 11' 36.0" W	3700	4200	4/1/29			
E140002	SES-REG-20140104-00002	GRANDE COMMUNICATIONS NETWORKS, LLC	TX	1	6441 SARATOGA BLVD. CORPUS CHRISTI, NUECES, TX, 7841	authorized	4.5	8345	1	27° 40' 36.4" N	97° 22' 5.3" W	3700	4200	4/1/29			
E140003	SES-REG-20140104-00003	GRANDE COMMUNICATIONS NETWORKS, LLC	TX	1	2401 E IH-20 ODESSA, ECTOR, TX, 79766	authorized	4.5	8345	1	31° 50' 48.2" N	102° 19' 38.1" W	3700	4200	4/1/29			
E180821	SES-REG-20180612-01437	MEDIACOM COMMUNICATIONS CORPORATION	AL	1	366 North Hwy. 41 (AL 004) Camden, Wilcox, AL, 36726	authorized	3.8	GIBRALTER	1	31° 59' 48.3" N	87° 16' 15.2" W	3700	4200	12/6/33		Permitted Space Station List	E113WA
E180883	SES-REG-20180615-01511	MEDIACOM COMMUNICATIONS CORPORATION	AL	1	4545 Clearview Drive (AL 014) Mobile, Mobile, AL, 36619	authorized	4.5	8345	1	30° 35' 47.5" N	88° 13' 44.0" W	3700	4200	06/15/2033			

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E180998	SES-REG-20180619-01681	MEDIACOM COMMUNICATIONS CORPORATION	AL	1	123 Ware Drive (AL 024) Huntsville, Madison, AL, 35811	authorized	3.7	GIBRALTER	1	34° 47' 36.2" N	86° 32' 18.4" W	3700	4200	06/19/2033		
E180999	SES-REG-20180619-01682	MEDIACOM COMMUNICATIONS CORPORATION	AL	1	1109 Lett Ave. (AL 026) Daphne, Baldwin, AL, 3652	authorized	3.7	GIBRALTER	1	30° 36' 9.5" N	87° 53' 36.8" W	3700	4200	06/19/2033		
E181872	SES-REG-20180620-03039	MEDIACOM COMMUNICATIONS CORPORATION	AL	1	213 Dunson Street Andalusia, Covington, AL, 36420	authorized	3.7	GIBRALTER	1	31° 18' 24.7" N	86° 29' 6.7" W	3700	4200	06/19/2033		
E181873	SES-REG-20180620-03040	MEDIACOM COMMUNICATIONS CORPORATION	AZ	1	3103 East Combs Road Queen Creek, Pinal, AZ, 85242	authorized	4.5	GIBRALTER	1	33° 13' 9.4" N	111° 31' 56.6" W	3700	4200	06/19/2033		
E181874	SES-REG-20180620-03041	MEDIACOM COMMUNICATIONS CORPORATION	AZ	1	150 S. Sahuar St. Ajo, Pima, AZ, 85321	authorized	3.8	GIBRALTER	1	32° 22' 1.9" N	112° 52' 45.3" W	3700	4200	06/19/2033		
E181878	SES-REG-20180620-03047	MEDIACOM COMMUNICATIONS CORPORATION	AZ	1	1065 Avenida Tiemblo (AZ 001) Rio Rico, Santa Cruz, AZ, 85648	authorized	3.7	GIBRALTER	1	31° 27' 35.7" N	111° 0' 21.9" W	3700	4200	06/19/2033		
E181005	SES-REG-20180619-01690	MEDIACOM COMMUNICATIONS CORPORATION	CA	1	29285 Valley Blvd Sun City, Riverside, CA, 92586	authorized	3.8	GIBRALTER	1	33° 41' 46.9" N	117° 12' 42.0" W	3700	4200	06/19/2033		
E181038	SES-REG-20180619-01731	MEDIACOM COMMUNICATIONS CORPORATION	CA	1	30230 Yellow Brick Rd.(CA 005) Valley Center, San Diego, CA, 92082	authorized	3.8	GIBRALTER	1	33° 15' 44.8" N	116° 59' 3.1" W	3700	4200	06/19/2033		
E181880	SES-REG-20180620-03049	MEDIACOM COMMUNICATIONS CORPORATION	CA	CA 001	543 West Inyokern Rd. Ridgecrest, Kern, CA, 93555	authorized	3.8	GIBRALTER	1	35° 39' 5.3" N	117° 40' 51.4" W	3700	4200	06/19/2033		
E181881	SES-REG-20180620-03050	MEDIACOM COMMUNICATIONS CORPORATION	CA	CA 003	5701 Wofford Heights Blvd. Wofford Heights, Kern, CA, 93285	authorized	3.8	GIBRALTER	1	35° 41' 58.1" N	118° 28' 17.8" W	3700	4200	06/19/2033		
E190741	SES-REG-20180919-04403	MEDIACOM COMMUNICATIONS CORPORATION	CA	1	16080 Davis St. Clearlake, Lake, CA, 95422	authorized	3.8	GIBRALTER	1	38° 57' 17.2" N	122° 36' 39.4" W	3700	4200	09/19/2033		
E180985	SES-REG-20180620-01667	MEDIACOM COMMUNICATIONS CORPORATION	DE	1	32376 burbage Rd (CR 353 Omar) Omar, Sussex, DE, 19945	authorized	3.8	GIBRALTER	1	38° 31' 52.8" N	75° 10' 58.4" W	3700	4200	06/20/2033		
E181072	SES-REG-20180620-01796	MEDIACOM COMMUNICATIONS CORPORATION	FL	1	702 Hwy. 22 across from Winnie St. (FL 019) Wewahitchka, Gulf, FL, 32465	authorized	3.8	GIBRALTER	1	30° 6' 59.0" N	85° 12' 28.4" W	3700	4200	06/20/2033		
E181074	SES-REG-20180620-01798	MEDIACOM COMMUNICATIONS CORPORATION	FL	FL 012	4349 Avalon Blvd. Milton, Santa Rosa, FL, 32583	authorized	3.8	GIBRALTER	1	30° 35' 37.2" N	87° 4' 52.7" W	3700	4200	06/20/2033		
E181007	SES-REG-20180620-01692	MEDIACOM COMMUNICATIONS CORPORATION	GA	1	3/10 mile N of US84 on Bold Springs Rd Pine Park, Grady, GA, 39828	authorized	3.8	GIBRALTER	1	30° 52' 25.8" N	84° 6' 11.2" W	3700	4200	06/20/2033		
E190729	SES-REG-20180914-04391	MEDIACOM COMMUNICATIONS CORPORATION	GA	1	2803 Palmyra Rd. Albany, Dougherty, GA, 31707	authorized	4.5	GIBRALTER	1	31° 37' 9.3" N	84° 11' 14.1" W	3700	4200	09/14/2033		
E190734	SES-REG-20180914-04396	MEDIACOM COMMUNICATIONS CORPORATION	GA	1	6710 Macon Rd. Columbus, Muscogee, GA, 31907	authorized	3.8	GIBRALTER	1	32° 31' 11.0" N	84° 52' 31.4" W	3700	4200	09/14/2033		
E180984	SES-REG-20180620-01666	MEDIACOM COMMUNICATIONS CORPORATION	IA	1	3505 17th Street Emmetsburg, Palo Alto, IA, 50536	authorized	3.8	GIBRALTER	1	43° 6' 20.5" N	94° 41' 42.4" W	3700	4200	06/20/2033		
E181012	SES-REG-20180620-01697	MEDIACOM COMMUNICATIONS CORPORATION	IA	1	2719 W Grimes Avenue Fairfield, Jefferson, IA, 52556	authorized	3.8	GIBRALTER	1	41° 0' 38.5" N	91° 59' 39.5" W	3700	4200	06/20/2033		
E181871	SES-REG-20180620-03038	MEDIACOM COMMUNICATIONS CORPORATION	IA	1	1408 West 15th Street Atlantic, Cass, IA, 50022	authorized	3.7	Commercial Antenna	1	41° 23' 45.3" N	95° 2' 2.8" W	3700	4200	06/19/2033		
E190730	SES-REG-20180914-04393	MEDIACOM COMMUNICATIONS CORPORATION	IA	1	5233 NE 15'th St. Des Moines, Polk, IA, 50313	authorized	4.5	GIBRALTER	1	41° 39' 19.5" N	93° 35' 54.6" W	3700	4200	09/14/2033		
E190732	SES-REG-20180914-04394	MEDIACOM COMMUNICATIONS CORPORATION	IA	1	6300 Council St. Cedar Rapids, Linn, IA, 52402	authorized	3.8	Commercial Antenna	1	42° 2' 28.0" N	91° 39' 25.7" W	3700	4200	09/14/2033		
E190733	SES-REG-20180914-04395	MEDIACOM COMMUNICATIONS CORPORATION	IA	1	4897 Asbury Circle Dubuque, Dubuque, IA, 52002	authorized	3.8	Commercial Antenna	1	42° 30' 48.0" N	90° 44' 44.7" W	3700	4200	09/14/2033		
E190735	SES-REG-20180914-04397	MEDIACOM COMMUNICATIONS CORPORATION	IA	1	4010 Alexandra Dr. Waterloo, Black Hawk, IA, 50702	authorized	3.8	GIBRALTER	1	42° 27' 26.4" N	92° 20' 1.7" W	3700	4200	09/14/2033		
E190738	SES-REG-20180914-04401	MEDIACOM COMMUNICATIONS CORPORATION	IA	1	3580 Orchid Avenue Manly, Worth, IA, 50456	authorized	3.8	GIBRALTER	1	43° 17' 0.3" N	93° 12' 45.4" W	3700	4200	09/14/2033		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E180986	SES-REG-20180620-01668	MEDIACOM COMMUNICATIONS CORPORATION	IL	1	Bissell & Superior (By Water Tower) Tower Hill, Shelby, IL 62571	authorized	3.8	GIBRALTER	1	39° 23' 24.2" N	88° 57' 31.7" W	3700	4200	06/20/2033		
E180987	SES-REG-20180620-01669	MEDIACOM COMMUNICATIONS CORPORATION	IL	1	17800 Galena Rd. Little Rock Kendall, IL, 60545	authorized	3.8	GIBRALTER	1	41° 42' 48.2" N	88° 36' 4.7" W	3700	4200	06/20/2033		
E181013	SES-REG-20180620-01698	MEDIACOM COMMUNICATIONS CORPORATION	IL	1	South Price St. (at water tower) Industry, McDonough, IL, 61440	authorized	3.8	GIBRALTER	1	40° 19' 26.1" N	90° 36' 16.4" W	3700	4200	06/20/2033		
E181014	SES-REG-20180620-01699	MEDIACOM COMMUNICATIONS CORPORATION	IL	1	Corner of Ridge & Main St. Kincaid, Christian, IL, 62568	authorized	3.8	GIBRALTER	1	39° 35' 36.2" N	89° 25' 23.3" W	3700	4200	06/20/2033		
E181015	SES-REG-20180620-01700	MEDIACOM COMMUNICATIONS CORPORATION	IL	1	Intersection Rt. 67 & Main St. Good Hope, McDonough, IL, 61438	authorized	3.8	GIBRALTER	1	40° 33' 26.8" N	90° 40' 23.9" W	3700	4200	06/20/2033		
E181016	SES-REG-20180620-01701	MEDIACOM COMMUNICATIONS CORPORATION	IL	1	South Schumway (South of East Townline) Lena, Stephenson, IL, 61048	authorized	3.8	GIBRALTER	1	42° 22' 9.3" N	89° 49' 30.4" W	3700	4200	06/20/2033		
E181017	SES-REG-20180620-01702	MEDIACOM COMMUNICATIONS CORPORATION	IL	1	1 mile East of Mineral on Rt 6 Mineral, Bureau, IL, 61344	authorized	3.8	GIBRALTER	1	41° 22' 32.1" N	89° 48' 26.3" W	3700	4200	06/20/2033		
E181075	SES-REG-20180620-01799	MEDIACOM COMMUNICATIONS CORPORATION	IL	IA 139	3900-26'th Ave. Moline, Rock Island, IL, 61265	authorized	4.5	8345	1	41° 29' 7.5" N	90° 28' 52.0" W	3700	4200	06/20/2033		
E181076	SES-REG-20180620-01800	MEDIACOM COMMUNICATIONS CORPORATION	IL	IL 019	4'th Block of South Stoddard Coffeen, Montgomery, IL, 62017	authorized	3.8	GIBRALTER	1	39° 5' 13.1" N	89° 23' 38.8" W	3700	4200	06/20/2033		
E181077	SES-REG-20180620-01801	MEDIACOM COMMUNICATIONS CORPORATION	IL	1	Northeast of town on 550 E (IL 039) Gibson City, Ford, IL, 60936	authorized	3.8	GIBRALTER	1	40° 29' 12.1" N	88° 21' 51.5" W	3700	4200	06/20/2033		
E181127	SES-REG-20180627-01855	MEDIACOM COMMUNICATIONS CORPORATION	IL	1	S. 7th Street Clay City, Clay, IL, 62824	authorized	3.8	GIBRALTER	1	38° 41' 3.0" N	88° 21' 18.0" W	3700	4200	06/27/2033		
E181128	SES-REG-20180627-01856	MEDIACOM COMMUNICATIONS CORPORATION	IL	1	99 Tornado Rd. Murphysboro, Jackson, IL, 62966	authorized	3.8	GIBRALTER	1	37° 47' 37.4" N	89° 20' 57.1" W	3700	4200	06/27/2033		
E181130	SES-REG-20180627-01858	MEDIACOM COMMUNICATIONS CORPORATION	IL	1	905 Fairview St. German Valley, Stephenson, IL, 61039	authorized	3.8	GIBRALTER	1	47° 12' 47.9" N	89° 29' 32.5" W	3700	4200	06/27/2033		
E181131	SES-REG-20180627-01859	MEDIACOM COMMUNICATIONS CORPORATION	IL	1	East Shady Oaks Road Minooka, Grundy, IL, 60447	authorized	3.8	GIBRALTER	1	41° 26' 46.7" N	88° 19' 36.1" W	3700	4200	06/27/2033		
E181191	SES-REG-20180627-01933	MEDIACOM COMMUNICATIONS CORPORATION	IL	1	200 block of South Locust St. & Depot St (IL 108) Victoria, Knox, IL, 61485	authorized	3.8	GIBRALTER	1	41° 1' 54.3" N	90° 5' 45.2" W	3700	4200	06/27/2033		
E190737	SES-REG-20180914-04399	MEDIACOM COMMUNICATIONS CORPORATION	IL	1	2 Miles SE Charleston on Roy Reed Farm Charleston, Coles, IL, 52402	authorized	3.8	GIBRALTER	1	39° 28' 31.7" N	88° 8' 21.7" W	3700	4200	06/27/2033		
E181092	SES-REG-20180627-01824	MEDIACOM COMMUNICATIONS CORPORATION	IN	1	935 East Ave. (IN 013) Kendallville, Noble, IN, 4675	authorized	3.8	GIBRALTER	1	41° 27' 15.2" N	85° 15' 46.6" W	3700	4200	06/27/2033		
E181093	SES-REG-20180627-01825	MEDIACOM COMMUNICATIONS CORPORATION	IN	1	4919 South 800 East Rd. (IN 015) Knox, Starke, IN, 46534	authorized	3.8	GIBRALTER	1	41° 13' 57.2" N	86° 32' 40.2" W	3700	4200	06/27/2033		
E181088	SES-REG-20180627-01820	MEDIACOM COMMUNICATIONS CORPORATION	KS	KS 003	1101 North Rd. Burlington, Coffey, KS, 66839	authorized	3.8	Commercial Antenna	1	38° 12' 17.8" N	95° 44' 11.0" W	3700	4200	06/27/2033		
E181126	SES-REG-20180627-01854	MEDIACOM COMMUNICATIONS CORPORATION	KY	1	32 Mineral St. Madisonville, Hopkins, KY, 42431	authorized	3.8	GIBRALTER	1	37° 21' 38.2" N	87° 33' 0.5" W	3700	4200	06/27/2033		
E181192	SES-REG-20180627-01824	MEDIACOM COMMUNICATIONS CORPORATION	KY	1	935 East Ave. (IN 013) Kendallville, Noble, IN, 4675	authorized	3.8	GIBRALTER	1	36° 52' 34.0" N	85° 40' 1.6" W	3700	4200	06/27/2033		
E181193	SES-REG-20180627-01825	MEDIACOM COMMUNICATIONS CORPORATION	KY	1	4919 South 800 East Rd. (IN 015) Knox, Starke, IN, 46534	authorized	3.8	GIBRALTER	1	30° 44' 54.2" N	87° 32' 22.8" W	3700	4200	06/27/2033		
E181194	SES-REG-20180627-01936	MEDIACOM COMMUNICATIONS CORPORATION	KY	1	10436 Main Cross (KY 028) Whitesville, Daviess, KY, 42378	authorized	3.8	GIBRALTER	1	37° 40' 44.7" N	86° 52' 15.6" W	3700	4200	06/27/2033		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E181195	SES-REG-20180627-01937	MEDIACOM COMMUNICATIONS CORPORATION	KY	1	Rt. 70 (KY 032) Morgantown Butler, KY, 42261	authorized	3.8	GIBRALTER	1	37° 13' 30.1" N	86° 42' 1.4" W	3700	4200	06/27/2033		
E190740	SES-REG-20180914-04402	MEDIACOM COMMUNICATIONS CORPORATION	KY	1	300' West Hwy. 68 & 200' South Hwy. 274 Cadiz, Trigg, KY, 42211	authorized	3.8	GIBRALTER	1	36° 51' 1.0" N	87° 51' 1.1" W	3700	4200	09/14/2033		
E181179	SES-REG-20180627-01918	MEDIACOM COMMUNICATIONS CORPORATION	MI	1	24380 State Route 60 (MI 003) Mendon, St Joseph, MI, 49072	authorized	3.8	GIBRALTER	1	42° 0' 23.5" N	85° 28' 41.9" W	3700	4200	06/27/2033		
E181196	SES-REG-20180627-01938	MEDIACOM COMMUNICATIONS CORPORATION	MI	1	Hwy. 40 (MI 001) Marcellus, Cass, MI, 49067	authorized	3.8	GIBRALTER	1	42° 3' 12.4" N	85° 49' 30.0" W	3700	4200	06/27/2033		
E181197	SES-REG-20180627-01939	MEDIACOM COMMUNICATIONS CORPORATION	MI	1	49967 24'th St. (MI 002) Mattawan, Van Buren, MI, 49071	authorized	3.8	GIBRALTER	1	42° 14' 27.9" N	85° 46' 59.9" W	3700	4200	06/27/2033		
E181879	SES-REG-20180620-03048	MEDIACOM COMMUNICATIONS CORPORATION	MN	MN 078	115 20th Ave. SW Benson, Swift, MN, 56215	authorized	3.8	GIBRALTER	1	45° 17' 28.3" N	95° 37' 26.8" W	3700	4200	06/19/2033		
E181125	SES-REG-20180627-01853	MEDIACOM COMMUNICATIONS CORPORATION	MN	1	2506 Rock Dr. Scanlon, Carlton, MN, 55720	authorized	3.8	GIBRALTER	1	46° 42' 1.2" N	92° 25' 56.2" W	3700	4200	06/27/2033		
E181180	SES-REG-20180627-01919	MEDIACOM COMMUNICATIONS CORPORATION	MN	143 50 15.8 N	1593 Industrial Drive (MN 012) Chatfield, Olmsted, MN, 5592	authorized	3.8	GIBRALTER	1	43° 50' 15.8" N	92° 10' 11.3" W	3700	4200	06/27/2033		
E190736	SES-REG-20180914-04398	MEDIACOM COMMUNICATIONS CORPORATION	MN	1	SW corner intersection CR 2 & 107 St Peter, Nicollett, MN, 56082	authorized	3.8	GIBRALTER	1	44° 18' 30.8" N	93° 55' 53.0" W	3700	4200	09/14/2033		
E190746	SES-REG-20180919-04408	MEDIACOM COMMUNICATIONS CORPORATION	MN	1	West Lakewood Ave. (1.3 miles South) Lake City, Wabasha, MN, 55041	authorized	3.8	GIBRALTER	1	44° 24' 43.7" N	92° 16' 22.2" W	3700	4200	09/19/2033		
E190783	SES-REG-20180919-04442	MEDIACOM COMMUNICATIONS CORPORATION	MN	1	705 West 34th Street (MN 083) Hibbing, St. Louis, MN, 55746	authorized	3.8	GIBRALTER	1	47° 24' 34.0" N	92° 57' 3.0" W	3700	4200	09/19/2033		
E190731	SES-REG-20180914-04392	MEDIACOM COMMUNICATIONS CORPORATION	MO	1	1533 South Enterprise St. Springfield, Greene, MO, 65801	authorized	4.5	8345	1	37° 11' 9.1" N	93° 15' 0.5" W	3700	4200	09/14/2033		
E190747	SES-REG-20180919-04409	MEDIACOM COMMUNICATIONS CORPORATION	MO	1	7572 Joplin St. Carl Junction Jasper, MO, 64834	authorized	3.8	Commercial Antenna	1	37° 9' 44.8" N	94° 33' 38.9" W	3700	4200	09/19/2033		
E190748	SES-REG-20180919-04410	MEDIACOM COMMUNICATIONS CORPORATION	MO	1	Herman Industrial Park, Hwy. 100 Hermann, Gasconade, MO, 65041	authorized	3.8	GIBRALTER	1	38° 42' 24.3" N	91° 24' 43.9" W	3700	4200	09/19/2033		
E190749	SES-REG-20180919-04411	MEDIACOM COMMUNICATIONS CORPORATION	MO	1	Hwy. 421 East Caruthersville, Pemiscot, MO, 63851	authorized	3.8	GIBRALTER	1	36° 13' 15.1" N	89° 42' 37.8" W	3700	4200	09/19/2033		
E190750	SES-REG-20180919-04412	MEDIACOM COMMUNICATIONS CORPORATION	MO	1	115 Industrial Park Rd. Excelsior Springs, Clay, MO, 64024	authorized	3.8	Commercial Antenna	1	39° 20' 23.3" N	94° 14' 26.5" W	3700	4200	09/19/2033		
E190751	SES-REG-20180919-04413	MEDIACOM COMMUNICATIONS CORPORATION	MO	1	Old Hwy. 71 South Butler, Bates, MO, 64730	authorized	3.8	GIBRALTER	1	38° 14' 36.2" N	94° 20' 52.4" W	3700	4200	09/19/2033		
E190742	SES-REG-20180919-04404	MEDIACOM COMMUNICATIONS CORPORATION	MS	1	Mammoth Drive Beaumont, Perry, MS, 39423	authorized	3.8	GIBRALTER	1	31° 10' 25.1" N	88° 55' 19.2" W	3700	4200	09/19/2033		
E190743	SES-REG-20180919-04405	MEDIACOM COMMUNICATIONS CORPORATION	MS	1	905 Saint Joseph St. Waveland, Hancock, MS, 39423	authorized	3.8	GIBRALTER	1	30° 17' 49.9" N	89° 22' 39.4" W	3700	4200	09/19/2033		
E190739	SES-REG-20180914-04400	MEDIACOM COMMUNICATIONS CORPORATION	NC	1	216B Shannonhouse Rd. Edenton, Chowan, NC, 27931	authorized	3.8	GIBRALTER	1	36° 5' 27.5" N	76° 33' 40.0" W	3700	4200	09/14/2033		
E181086	SES-REG-20180620-01816	MEDIACOM COMMUNICATIONS CORPORATION	SD	SD 010	404 W. Broad St. Flandreau, Moody, SD, 57028	authorized	3.8	Commercial Antenna	1	44° 2' 38.7" N	96° 35' 58.6" W	3700	4200	06/20/2033		
E190672	SES-REG-20180914-04348	MEDIACOM COMMUNICATIONS CORPORATION	WI	1	94 Larson Street Cashton, Monroe, WI, 54619	authorized	3.8	GIBRALTER	1	43° 44' 21.9" N	90° 47' 34.8" W	3700	4200	09/14/2033		
E040212	SES-RWL-20190531-00702	Atlantic Broadband (Delmar), LLC	PA	1	393 WERTZ ROAD JOHNSTOWN, CAMBRIA, PA, 15905	authorized	10	8002 SHORT MOUNT	1	40° 18' 6.0" N	78° 53' 51.0" W	3700	4200	4/5/34	Permitted Space Station List	E117WA
E120063	SES-REG-20120411-00352	Atlantic Broadband (Delmar), LLC	VA	1	11387 RIDGE ROAD Headend KING GEORGE, KING GEORGE, VA, 22485	authorized	6	Scientific Atlanta	4	38° 15' 50.0" N	77° 8' 49.0" W	3700	4200	11/4/27		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E120064	SES-REG-20120411-00353	Atlantic Broadband (Delmar), LLC	VA	1	46103 STATE RT. 2003, MOUNTAIN ROAD headend MIDDLEPORT, SCHUYLKILL, PA, 17953	authorized	6	Scientific Atlanta	8	37° 36' 13.0" N	76° 34' 0.0" W	3700	4200	11/4/27		
E120065	SES-REG-20120411-00354	Atlantic Broadband (Penn), LLC	PA	1	46103 STATE RT. 2003, MOUNTAIN ROAD headend MIDDLEPORT, SCHUYLKILL, PA, 17953	authorized	6	Scientific Atlanta	4	40° 43' 3.2" N	76° 4' 20.1" W	3700	4200	11/4/27		
E120066	SES-REG-20120411-00355	Atlantic Broadband (CT), LLC	CT	1	689 OLD COLCHESTER ROAD headend MONTVILLE, NEW LONDON, CT, 06382	authorized	4.5	PRODELIN	8	41° 27' 9.9" N	72° 9' 16.0" W	3700	4200	11/4/27		
E120067	SES-REG-20120411-00356	Atlantic Broadband (NH-ME), LLC	NH	1	21 JARVIS AVENUE headend ROCHESTER, STRAFFORD, NH, 03868	authorized	5	SIMULSAT 5M	1	43° 19' 33.9" N	70° 58' 20.3" W	3700	4200	11/4/27		
WT99	SES-RWL-20170705-00730	Atlantic Broadband (Delmar), LLC	MD	1	LEONARDTOWN, ST. MARY'S, MD	authorized	5	FT WORTH FWTS	1	38° 18' 32.0" N	76° 38' 12.0" W	3700	4200	1/10/32		
E160177	SES-LIC-20161208-00938	AT&T Corp.	US Territory	1	Various US Territory	authorized	2.4	AVL	1	0° 0' 0.0"	0° 0' 0.0"	3700	4200	01/18/2032		E117WA
KA91	SES-RWL-20061002-01793	AT&T Corp.	CA	1	1700 SOUTH BARDMAN AVENUE MALIBU, LOS ANGELES, CA	authorized	3.2	10578	1	34° 4' 49.7" N	118° 53' 43.9" W	3700	4200	12/11/21		
WA33	SES-RWL-20190507-00571	AT&T Corp.	PA	1	RD 33, BOX 49 ROARING CREEK, COLUMBIA, PA	authorized	3.2	TORONTO IRON	1	40° 53' 37.5" N	76° 26' 21.8" W	3700	4200	4/6/34		
E050211	SES-RWL-20200501-00469	AT&T Corp.	KS	1	5400 FOXRIDGE DR. MISSION, JOHNSON, KS, 66202	authorized	4.5	8345	19	39° 1' 50.0" N	94° 39' 59.0" W	3700	4200	12/7/35		
E060118	SES-MOD-20170627-00692	RCN License Subsidiary, Inc.	AL	1	1000 JOHN ROGERS DRIVE BIRMINGHAM, JEFFERSON, AL, 35210	authorized	4.1	OFFSAT	1	33° 34' 32.1" N	86° 39' 40.7" W	3700	4200	05/22/2021		
E980145	SES-RWL-20080310-00266	RCN License Subsidiary, Inc.	AL	1	8680 COUNTY ROAD 40 SHORTER, MACON, AL	authorized	3.8	1381	1	32° 24' 43.1" N	85° 56' 53.1" W	3700	4200	04/24/2023		E113WA
E060122	SES-MOD-20080111-00038	RCN License Subsidiary, Inc.	AR	1	1550 N. INGRAM BOULEVARD WEST MEMPHIS, CRITTENDEN, AR, 72301	authorized	3.8	1383	1	35° 9' 48.0" N	90° 9' 38.0" W	3700	4200	05/22/2021		
E040085	SES-RWL-20190308-00277	RCN License Subsidiary, Inc.	AZ	1	3801 E. Washington Street Phoenix, Maricopa, AZ, 85034	authorized	5.5	OFFSAT	1	33° 26' 46.0" N	112° 0' 0.0" W	3700	4200	03/26/2034		
E040026	SES-RWL-20190308-00319	RCN License Subsidiary, Inc.	AZ	1	2601 Third Avenue Tuscon, Pima, AZ, 85713	authorized	3.8	1383	1	32° 11' 26.0" N	110° 57' 48.0" W	3700	4200	03/30/2034		
E050142	SES-LIC-20050517-00611	RCN License Subsidiary, Inc.	CA	1	4961 Katella Avenue Los Alamitos, Orange, CA, 90720	authorized	3.8	1383	1	33° 48' 24.7" N	118° 2' 43.2" W	3700	4200	06/28/2020		
E060333	SES-LIC-20060823-01496	RCN License Subsidiary, Inc.	FL	1	401 NW 38th Street Ct Miami, Miami-Dade, FL, 33126	authorized	3.8	1383	1	25° 46' 31.2" N	80° 15' 23.7" W	3700	4200	2/10/21		
E060355	SES-LIC-20060915-01738	RCN License Subsidiary, Inc.	FL	1	831 North Federal Highway Hallandale, Broward, FL, 33009	authorized	3.8	1383	1	25° 59' 37.4" N	80° 8' 44.1" W	3700	4200	10/23/2021		
E080105	SES-LIC-20080512-00586	RCN License Subsidiary, Inc.	FL	1	301 Dog Track Road Longwood, Seminole, FL, 32750	authorized	4.1	OFFSAT	1	28° 41' 3.3" N	81° 20' 27.7" W	3700	4200	06/16/2023		
E080106	SES-LIC-20080512-00587	RCN License Subsidiary, Inc.	FL	1	960 S. WILLIAMSON BLVD. DAYTONA BEACH, VOLUSIA, FL, 32114	authorized	4.1	OFFSAT	1	29° 9' 59.0" N	81° 4' 49.0" W	3700	4200	06/16/2023		
E980130	SES-MOD-20180323-00270	RCN License Subsidiary, Inc.	FL	1	301 EAST DANIA BEACH BLVD. DANIA, BROWARD, FL, 330044	authorized	5	5	1	26° 3' 13.0" N	80° 8' 15.5" W	3700	4200	03/20/2023		
E960003	SES-RWL-20051006-01378	RCN License Subsidiary, Inc.	FL	1	21001 NORTHWEST 27TH AVENUE MIAMI, DADE, FL	authorized	6.1	C-61KFRLA	2	25° 58' 3.0" N	80° 14' 24.0" W	3700	4200	11/24/2020		
E873910	SES-RWL-20071205-01664	RCN License Subsidiary, Inc.	FL	1	10601 BONITA BEACH ROAD BONITA SPRINGS, LEE, FL, 34135	authorized	3.8	1383	1	26° 19' 36.3" N	81° 46' 35.4" W	3700	4200	12/19/2022		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E030143	SES-RWL-20180721-01965	RCN License Subsidiary, Inc.	FL	1	901 S. Federal Highway Hallandale, Broward, FL, 33009	authorized	3.8	1383	1	25° 58' 56.9" N	80° 8' 21.6" W	3700	4200	1/10/33		
E040019	SES-RWL-20190308-00318	RCN License Subsidiary, Inc.	FL	1	1800 SW Third Street Pompano Beach, Broward, FL 33069	authorized	3.8	1383	1	26° 13' 18.0" N	80° 9' 12.3" W	3700	4200	03/30/2034		
E980133	SES-RWL-20080310-00272	RCN License Subsidiary, Inc.	IA	1	2701 23RD AVENUE SOUTH COUNCIL BLUFFS, POTTAWATTAMIE, IA	authorized	3.8	1381	1	41° 14' 5.4" N	95° 53' 10.8" W	3700	4200	03/27/2023		
E970384	SES-RWL-20070419-00488	RCN Telecom Services of Illinois, LLC	IA	1	350 N. ORLEANS, APPAREL MART (BLDG.) CHICAGO, COOK, IL	authorized	2.7	9 FOOT	1	41° 53' 19.0" N	87° 38' 17.0" W	3700	4200	06/30/2022		
E030057	SES-RWL-20180525-00857	RCN License Subsidiary, Inc.	IA	1	3501 S. Laramie Ave Cicero, Cook, IL 60604	authorized	3.8	1383	1	41° 49' 40.5" N	87° 45' 8.6" W	3700	4200	06/23/2033		
E080104	SES-LIC-20080512-00585	RCN License Subsidiary, Inc.	LA	1	2717 Delta Downs Vinton, Calcasieu Parish, LA, 70668	authorized	4.1	OFFSAT	1	30° 11' 40.4" N	93° 37' 29.1" W	3700	4200	06/16/2033		
E190485	SES-REG-20180903-04173	RCN Telecom Services of Massachusetts, LLC	MA	1	430 Main Street (STH.MA) Stoneham, Middlesex, MA, 02180	authorized	5	50DH1	2	42° 28' 41.8" N	71° 5' 58.9" W	3700	4200	08/31/2033		
E190485	SES-REG-20180903-04173	RCN Telecom Services of Massachusetts, LLC	MA	1	430 Main Street (STH.MA) Stoneham, Middlesex, MA, 02180	authorized	4.5	8345	2	42° 28' 41.8" N	71° 5' 58.9" W	3700	4200	08/31/2033		
E980466	SES-RWL-20080825-01096	RCN Telecom Services of Massachusetts, LLC	MA	1	105 WEST FIRST STREET SO. BOSTON, SUFFOLK, MA, 02127	authorized	3.7	9037	5	42° 20' 38.0" N	71° 2' 57.0" W	3700	4200	10/16/2023		
E980014	SES-RWL-20071205-01663	RCN License Subsidiary, Inc.	NJ	1	RT 9 & 33 FREEHOLD, NJ, 07728	authorized	6.1	KPK	2	40° 15' 22.0" N	74° 17' 24.0" W	3700	4200	12/12/22		
E040004	SES-RWL-20190308-00315	RCN License Subsidiary, Inc.	NM	1	1200 Futurity Drive Sunland Park, Dona Ana, NM, 88063	authorized	3.8	1383	1	31° 48' 16.6" N	106° 33' 31.7" W	3700	4200	04/26/2034		
E190041	SES-LIC-20181017-03654	RCN License Subsidiary, Inc.	NV	1	E. Dale Avenue Henderson, Clark, NV, 89044	authorized	9.3	ESA	1	35° 57' 39.9" N	115° 9' 59.1" W	3700	4200	04/23/2034		
E190041	SES-LIC-20181017-03654	RCN License Subsidiary, Inc.	NV	1	E. Dale Avenue Henderson, Clark, NV, 89044	authorized	7.6	ESA	2	35° 57' 39.9" N	115° 9' 59.1" W	3700	4200	04/23/2034		
E190041	SES-LIC-20181017-03654	RCN License Subsidiary, Inc.	NV	1	E. Dale Avenue Henderson, Clark, NV, 89044	authorized	9.3	ASC SIGNAL	1	35° 57' 39.9" N	115° 9' 59.1" W	3700	4200	04/23/2034		
E190071	SES-LIC-20181017-03704	RCN License Subsidiary, Inc.	NV	1	E. Dale Avenue Henderson, Clark, NV, 89044	Authorized	9.3	ESA	1	35° 57' 39.9" N	115° 10' 1.5" W	3700	4200	05/22/2034		
E190071	SES-LIC-20181017-03704	RCN License Subsidiary, Inc.	NV	1	E. Dale Avenue Henderson, Clark, NV, 89044	authorized	7.6	ESA	2	35° 57' 39.9" N	115° 10' 1.5" W	3700	4200	05/22/2034		
E190071	SES-LIC-20181017-03704	RCN License Subsidiary, Inc.	NV	1	E. Dale Avenue Henderson, Clark, NV, 89044	authorized	9.3	9.3	1	35° 57' 39.9" N	115° 10' 1.5" W	3700	4200	05/22/2034		
E060218	SES-MOD-20150108-00076	RCN License Subsidiary, Inc.	NV	2.4C	4175 CAMERON STREET, SUITE #B-10 CONUS, AK, HI AND ALL US TERRITORIES LAS VEGAS, CLARK, NV, 89103	authorized	2.4	1383	2	36° 6' 50.7" N	115° 12' 14.8" W	3700	4200	09/20/2021		
E000577	SES-RWL-20100831-01113	RCN License Subsidiary, Inc.	NV	1	4175 Cameron Street Suite B-10 Las Vegas, Clark, NV, 89103	authorized	3.8	1381	1	36° 6' 50.7" N	115° 12' 14.8" W	3700	4200	11/13/2025		
E010323	SES-RWL-20111108-01339	RCN Telecom Services of New York, LP	NY	1 QUEENS	33-16 WOODSIDE AVENUE LONG ISLAND CITY, QUEENS, NY, 11101	authorized	5	SOLID ALUMINUM	1	40° 45' 6.8" N	73° 54' 38.3" W	3700	4200	11/19/2026		
E060102	SES-REG-20060328-00536	RCN Telecom Services (Lehigh) LLC	PA	1	5508 NOR-BATH BLVD. (NOR BATH C) NORTHAMPTON, NORTHAMPTON, PA, 18067	authorized	3.7	136-752	2	40° 42' 2.0" N	75° 25' 58.0" W	3700	4200	03/21/2021		
E060102	SES-REG-20060328-00536	RCN Telecom Services (Lehigh) LLC	PA	1	5508 NOR-BATH BLVD. (NOR BATH C) NORTHAMPTON, NORTHAMPTON, PA, 18067	authorized	4.6	8005B	2	40° 42' 2.0" N	75° 25' 58.0" W	3700	4200	03/21/2021		
E060102	SES-REG-20060328-00536	RCN Telecom Services (Lehigh) LLC	PA	1	5508 NOR-BATH BLVD. (NOR BATH C) NORTHAMPTON, NORTHAMPTON, PA, 18067	authorized	7	PR-23	2	40° 42' 2.0" N	75° 25' 58.0" W	3700	4200	03/21/2021		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E060102	SES-REG-20060328-00536	RCN Telecom Services (Lehigh) LLC	PA	1	5508 NOR-BATH BLVD. (NOR BATH C) NORTHAMPTON, NORTHAMPTON, PA, 18067	authorized	3.1	PRT-310	1	40° 42' 2.0" N	75° 25' 58.0" W	3700	4200	03/21/2021		
E970184	SES-RWL-20061208-02114	RCN Telecom Services (Lehigh) LLC	PA	1	5508 NOR-BATH BLVD. NORTHAMPTON, PA	authorized	3.2	9000	1	40° 42' 2.0" N	75° 25' 58.0" W	3700	4200	11/2/22		
E030144	SES-RWL-20180721-01931	RCN License Subsidiary, Inc.	PA	1	Exit 28 off I-81 Grantville, Dauphin, PA, 17028	authorized	3.8	1383	1	40° 23' 38.0"	76° 39' 36.0" W	3700	4200	1/10/33		
E040009	SES-RWL-20190308-00316	RCN License Subsidiary, Inc.	PA	1	RACETRACK ROAD WASHINGTON, WASHINGTON, PA, 15301	authorized	3.8	1383	1	40° 13' 12.7" N	80° 12' 1.4" W	3700	4200	5/4/34		
E060114	SES-MOD-20061102-01942	RCN License Subsidiary, Inc.	TX	1	7575 NORTH SAM HOUSTON PARKWAY, HOUSTON, TX, 77064	authorized	4.1	OFFSAT	1	29° 55' 43.0" N	95° 31' 48.0" W	3700	4200	05/22/2021		
E960174	SES-RWL-20060407-00588	RCN License Subsidiary, Inc.	TX	1	1000 FM 2004 GULF GREYHOUND PARK LA MARQUE, GALVESTON, TX	authorized	3.8	1381	1	29° 23' 55.0" N	95° 2' 8.0" W	3700	4200	4/6/21		
E050016	SES-RWL-20191220-01766	Roberts Communications Network, Inc.	WI	1	5522 104th Avenue Kenosha, Kenosha, WI, 53144	authorized	3.8	1383	1	42° 35' 9.7" N	87° 56' 34.3" W	3700	4200	03/17/2035		
E000578	SES-MOD-20170627-00685	RCN License Subsidiary, Inc.	WV	CTR	Flowing Springs Road Charles Town, Jefferson, WV, 25414	authorized	3.8	1381	1	39° 17' 40.2" N	77° 51' 5.7" W	3700	4200	12/11/25		
E030076	SES-RWL-20180525-00932	RCN License Subsidiary, Inc.	WV	1	1 Greyhound Drive Cross Lanes, Kanawha, WV, 25313	authorized	3.8	1383	1	38° 25' 12.0" N	81° 48' 37.0" W	3700	4200	06/23/2033		
E000170	SES-RWL-20100407-00408	Comcast of Colorado/Florida/Michigan/New Mexico/Pennsylvania/Washington, LLC	CA	1	2341 SKYWAY DRIVE SANTA MARIA, SANTA BARBARA, CA, 93454	authorized	5	COMTECH 5M PF	1	34° 55' 3.9" N	120° 27' 16.6" W	3700	4200	04/14/2025		E113WA
E010208	SES-RWL-20110706-00790	Comcast of Colorado/Florida/Michigan/New Mexico/Pennsylvania/Washington, LLC	PA	1	1555 SUZY STREET LEBANON, LEBANON, PA, 17046	authorized	5	COMTECH 32 25LOG	1	40° 21' 20.0" N	76° 23' 25.0" W	3700	4200	2/8/26		
E070048	SES-REG-20070329-00413	Comcast of Colorado/Florida/Michigan/New Mexico/Pennsylvania/Washington, LLC	NM	1	50 ANTELOPE TRAIL DEMING, LUNA, NM, 88030	authorized	5	SCIENTIFIC ATLANTA	1	32° 18' 47.3" N	107° 45' 17.1" W	3700	4200	03/29/2022		
E010002	SES-MOD-20180615-01404	Comcast of Maryland, LLC	MD	1	1107 RITCHIE ROAD CAPITOL HEIGHTS, PRINCE GEORGES, MD,	authorized	4.5	SCIENTIFIC ATLANTA 8345	11	38° 52' 27.7" N	76° 51' 28.0" W	3700	4200	12/26/2025		E113WA
E070216	SES-MOD-20180706-01997	Comcast of California/Maryland/Pennsylvania/ Virginia/West Virginia, LLC	CA	1	1460 SOUTH. MAIN WILLITS, MENDOCINO, CA, 95490	authorized	4.6	SCIENTIFIC ATLANTA 8005	1	39° 23' 7.4" N	123° 21' 0.7" W	3700	4200	08/31/2022		
E010330	SES-RWL-20111006-01182	COMCAST OF ARIZONA, LLC	AZ	1	8251 NORTH CORTARO ROAD TUCSON, PIMA, AZ, 857439599	authorized	4.5	SCIENTIFIC ATLANTA	1	32° 21' 26.6" N	111° 5' 38.0" W	3700	4200	11/19/2026		E113WA
E070237	SES-MOD-20180615-01384	COMCAST OF CONNECTICUT, INC	CT	1	222 NEW PARK DRIVE BERLIN, HARTFORD, CT, 06037	authorized	4.5	SCIENTIFIC ATLANTA 8345	10	41° 35' 53.8" N	72° 44' 55.4" W	3700	4200	9/10/22		E113WA
E100049	SES-REG-20100407-00409	COMCAST OF ALABAMA, LLC	AL	1	2047 MAX LUTHER DRIVE NW HUNTSVILLE, MADISON, AL, 35810	authorized	3	SCIENTIFIC ATLANTA	1	34° 45' 27.0" N	86° 35' 45.0" W	3700	4200	7/4/25		E113WA
E170186	SES-MOD-20180615-01525	Comcast Cable Communications Management, LLC	AR	1	Hwy 64 B West Earle, Crittenden, AR, 72331	authorized	3.4	3.4m.Satco	1	35° 16' 6.4" N	90° 29' 11.2" W	3700	4200	3/8/32		E113WA
E170186	SES-MOD-20180615-01525	Comcast Cable Communications Management, LLC	AR	1	Hwy 64 B West Earle, Crittenden, AR, 72331	authorized	3.5	3.5m.Win	1	35° 16' 6.4" N	90° 29' 11.2" W	3700	4200	3/8/32		
E170186	SES-MOD-20180615-01525	Comcast Cable Communications Management, LLC	AR	1	Hwy 64 B West Earle, Crittenden, AR, 72331	authorized	3.6	3.8mCom	1	35° 16' 6.4" N	90° 29' 11.2" W	3700	4200	3/8/32		
E170186	SES-MOD-20180615-01525	Comcast Cable Communications Management, LLC	AR	1	Hwy 64 B West Earle, Crittenden, AR, 72331	authorized	3.7	4.5m.S-A	1	35° 16' 6.4" N	90° 29' 11.2" W	3700	4200	3/8/32		
E170186	SES-MOD-20180615-01525	Comcast Cable Communications Management, LLC	AR	1	Hwy 64 B West Earle, Crittenden, AR, 72331	authorized	3.8	4.6m.S-A	1	35° 16' 6.4" N	90° 29' 11.2" W	3700	4200	3/8/32		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E170186	SES-MOD-20180615-01525	Comcast Cable Communications Management, LLC	AR	1	Hwy 64 B West Earle, Crittenden, AR, 72331	authorized	3.9	5M.	1	35° 16' 6.4" N	90° 29' 11.2" W	3700	4200	3/8/32		
E180487	SES-REG-20180601-00912	Comcast Cable Communications Management, LLC	WV	1	US RT50 Water Tower Rd./Cher-Bet Drive Augusta, Hampshire, WV, 26704	authorized	3.8	Patriot	2	39° 17' 58.2" N	78° 38' 19.9" W	3700	4200	05/22/2033		
E180478	SES-REG-20180601-00900	Comcast Cable Communications Management, LLC	VA	1	69 Rockbridge Way Goshen, Rockbridge, VA, 24439	authorized	3.8	Patriot	3	37° 58' 59.9" N	79° 30' 16.0" W	3700	4200	05/25/2033		
E180512	SES-MOD-20180809-02785	Comcast Cable Communications Management, LLC	PA	1	1 Comcast Drive Blairsville, Indiana, PA, 15717	authorized	3.7	Prodelin 136 750	2	40° 26' 12.8" N	79° 14' 55.0" W	3700	4200	05/23/2033		
E180512	SES-MOD-20180809-02785	Comcast Cable Communications Management, LLC	PA	1	1 Comcast Drive Blairsville, Indiana, PA, 15717	authorized	3.8	Patriot	9	40° 26' 12.8" N	79° 14' 55.0" W	3700	4200	05/23/2033		
E180512	SES-MOD-20180809-02785	Comcast Cable Communications Management, LLC	PA	1	1 Comcast Drive Blairsville, Indiana, PA, 15717	authorized	4.6	Scientifi Atlanta	2	40° 26' 12.8" N	79° 14' 55.0" W	3700	4200	05/23/2033		
E180518	SES-REG-20180601-00947	Comcast Cable Communications Management, LLC	VA	1	9406 Sam Snead Hwy Hot Springs, Bath, VA, 24445	authorized	3.8	Patriot	5	38° 0' 50.4" N	79° 48' 33.7" W	3700	4200	05/26/2033		
E180530	SES-REG-20180601-00961	Comcast Cable Communications Management, LLC	PA	1	Crestmont Drive Eagles Mere, Sullivan, PA, 17731	authorized	3.7	General Dynamics	2	41° 24' 47.0" N	76° 34' 27.4" W	3700	4200	05/25/2033		
E180530	SES-REG-20180601-00961	Comcast Cable Communications Management, LLC	PA	1	Crestmont Drive Eagles Mere, Sullivan, PA, 17731	authorized	3.6	Orbitron SX12	1	41° 24' 47.0" N	76° 34' 27.4" W	3700	4200	05/25/2033		
E180530	SES-REG-20180601-00961	Comcast Cable Communications Management, LLC	PA	1	Crestmont Drive Eagles Mere, Sullivan, PA, 17731	authorized	3.8	Superior	3	41° 24' 47.0" N	76° 34' 27.4" W	3700	4200	05/25/2033		
E180621	SES-REG-20180615-01083	Comcast Cable Communications Management, LLC	PA	1	814-327-8036 Markleysburg, 814-327-8036, PA, 15459	authorized	3.8	Patriot	4	39° 44' 4.2" N	79° 28' 7.2" W	3700	4200	2/6/33		
E180631	SES-REG-20180615-01121	Comcast Cable Communications Management, LLC	NH	1	322 Nashua Rd Londonderry Rockingham, NH, 03053	authorized	4.5	Scientifi Atlanta	2	42° 49' 36.1" N	42° 49' 36.1" N	3700	4200	2/6/33		
E180631	SES-REG-20180615-01121	Comcast Cable Communications Management, LLC	NH	1	322 Nashua Rd Londonderry Rockingham, NH, 03053	authorized	4.6	Scientifi Atlanta	8	42° 49' 36.1" N	42° 49' 36.1" N	3700	4200	2/6/33		
E180650	SES-REG-20180615-01149	Comcast Cable Communications Management, LLC	NJ	1	73 Rock Avenue Plainfield, Union, NJ, 07063	authorized	3.8	DM	4	40° 35' 57.0" N	74° 27' 27.0" W	3700	4200	3/6/33		
E180650	SES-REG-20180615-01149	Comcast Cable Communications Management, LLC	NJ	1	73 Rock Avenue Plainfield, Union, NJ, 07063	authorized	5	DM	4	40° 35' 57.0" N	74° 27' 27.0" W	3700	4200	3/6/33		
E180664	SES-REG-20180615-01170	Comcast Cable Communications Management, LLC	VA	1	660 Munford Road Providence Forge, Charles City, VA, 23140	authorized	3.8	Patriot	4	37° 23' 5.8" N	77° 3' 36.1" W	3700	4200	3/6/33		
E180682	SES-REG-20180615-01219	Comcast Cable Communications Management, LLC	WV	1	Wilson Street Rowlesburg, Preston, WV, 26425	authorized	3.7	Prodelin	1	39° 20' 35.9" N	79° 40' 46.5" W	3700	4200	5/6/33		
E180682	SES-REG-20180615-01219	Comcast Cable Communications Management, LLC	WV	1	Wilson Street Rowlesburg, Preston, WV, 26425	authorized	3.8	Patriot	5	39° 20' 35.9" N	79° 40' 46.5" W	3700	4200	5/6/33		
E180693	SES-REG-20180615-01230	Comcast Cable Communications Management, LLC	DE	1	2215 N DuPont Hwy Wilmington, New Castle, DE, 19720	authorized	3.8	Comtech	4	39° 42' 12.0" N	75° 34' 20.0" W	3700	4200	5/6/33		
E180693	SES-REG-20180615-01230	Comcast Cable Communications Management, LLC	DE	1	2215 N DuPont Hwy Wilmington, New Castle, DE, 19720	authorized	3.8	Patriot	5	39° 42' 12.0" N	75° 34' 20.0" W	3700	4200	5/6/33		
E180720	SES-REG-20180615-01308	Comcast Cable Communications Management, LLC	MA	1	23 Waltham Street Woburn, Middlesex, MA, 01801	authorized	4.6	Scientifi Atlanta	1	42° 27' 18.0" N	71° 10' 44.0" W	3700	4200	5/6/33		
E181083	SES-REG-20180703-01813	Comcast Cable Communications Management, LLC	TN	1	216 Presley Road VONORE, Monroe, TN, 37885	authorized	5	ATCI	1	35° 35' 56.0" N	84° 16' 32.2" W	3700	4200	06/21/2033		
E181160	SES-REG-20180703-01894	Comcast Cable Communications Management, LLC	TN	1	140 Fire Tower Road BURRVILLE, Morgan, TN, 37872	authorized	2.8	Patriot	1	36° 17' 48.3" N	84° 45' 1.5" W	3700	4200	06/21/2033		
E181216	SES-REG-20180703-01971	Comcast Cable Communications Management, LLC	FL	1	214 NW 4th Avenue TRENTON, Gilchrist, FL, 32696	authorized	7	Microdyne Corporation	5	29° 36' 57.4" N	82° 49' 11.1" W	3700	4200	3/7/33		
E181217	SES-REG-20180703-01972	Comcast Cable Communications Management, LLC	FL	1	832 SW 159th Avenue ARCHER, Alachua, FL, 32618	authorized	5	Microdyne Corporation	6	29° 30' 33.1" N	82° 29' 53.1" W	3700	4200	06/21/2033		
E181218	SES-REG-20180703-01973	Comcast Cable Communications Management, LLC	AL	1	1009 La Venra DAUPHIN ISLA, Mobile, AL, 36528	authorized	3.8	Scientifi Atlanta	5	30° 15' 25.5" N	88° 6' 50.3" W	3700	4200	06/21/2033		
E181219	SES-REG-20180703-01974	Comcast Cable Communications Management, LLC	AL	1	54 Nern Road CLAYTON, Barbour, AL, 36016	authorized	5	Microdyne Corporation	6	31° 52' 41.6" N	85° 27' 15.0" W	3700	4200	5/6/33		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E181438	SES-REG-20180801-02318	Comcast Cable Communications Management, LLC	SC	4	106 Williams Street (3.8M. SA) Calhoun Falls, Abbeville, SC, 29628	authorized	3.8	Scientifi Atlanta	1	34° 5' 59.6" N	82° 35' 16.5" W	3700	4200	07/19/2033		
E181438	SES-REG-20180801-02318	Comcast Cable Communications Management, LLC	SC	3	106 Williams Street (3.8M.Comt) Calhoun Falls, Abbeville, SC, 29628	authorized	3.8	Comtech	1	34° 6' 0.0" N	82° 35' 16.6" W	3700	4200	07/19/2033		
E181438	SES-REG-20180801-02318	Comcast Cable Communications Management, LLC	SC	2	106 Williams Street (3.8M.Pat2) Calhoun Falls, Abbeville, SC, 29628	authorized	3.8	Patriot	1	34° 6' 0.2" N	82° 35' 16.7" W	3700	4200	07/19/2033		
E181438	SES-REG-20180801-02318	Comcast Cable Communications Management, LLC	SC	5	106 Williams Street (3.8M.Pat1) Calhoun Falls, Abbeville, SC, 29628	authorized	3.8	Patriot	1	34° 6' 0.5" N	82° 35' 16.2" W	3700	4200	07/19/2033		
E181438	SES-REG-20180801-02318	Comcast Cable Communications Management, LLC	SC	1	106 Williams Street (4.6M.) Calhoun Falls, Abbeville, SC, 29628	authorized	4.6	Challenger	1	34° 5' 59.8" N	82° 35' 16.5" W	3700	4200	07/19/2033		
E181484	SES-REG-20180803-02368	Comcast Cable Communications Management, LLC	TN	1	1590 E. Hwy 30 ATHENS, McMinn, TN, 37303	authorized	2.8	Scientifi Atlanta	1	35° 24' 18.8" N	84° 35' 4.1" W	3700	4200	07/21/2033		
E181484	SES-REG-20180803-02368	Comcast Cable Communications Management, LLC	TN	1	1590 E. Hwy 30 ATHENS, McMinn, TN, 37303	authorized	5	ATCI	1	35° 24' 18.8" N	84° 35' 4.1" W	3700	4200	07/21/2033		
E181485	SES-REG-20180803-02369	Comcast Cable Communications Management, LLC	GA	1	1219 Cable Tower Road ELBERTON, Elbert, GA, 30633	authorized	4.1	Scientifi Atlanta	1	34° 5' 37.7" N	82° 53' 33.6" W	3700	4200	07/21/2033		
E181650	SES-REG-20180731-02585	Comcast Cable Communications Management, LLC	TN	1	109 E. Main Street Adams, Robertson, TN, 37010	authorized	2	Wine Gard	1	36° 34' 52.0" N	87° 3' 58.0" W	3700	4200	07/18/2033		
E181650	SES-REG-20180731-02585	Comcast Cable Communications Management, LLC	TN	2	109 E. Main Street Adams, Robertson, TN, 37010	authorized	3.5	Patriot	1	36° 34' 52.0" N	87° 4' 0.0" W	3700	4200	07/18/2033		
E181650	SES-REG-20180731-02585	Comcast Cable Communications Management, LLC	TN	2	109 E. Main Street Adams, Robertson, TN, 37010	authorized	3.4	Patriot	2	36° 34' 52.0" N	87° 3' 58.0" W	3700	4200	07/18/2033		
E181650	SES-REG-20180731-02585	Comcast Cable Communications Management, LLC	TN	2	109 E. Main Street Adams, Robertson, TN, 37010	authorized	2	Wine Gard	1	36° 34' 52.0" N	87° 4' 0.0" W	3700	4200	07/18/2033		
E181661	SES-REG-20180731-02600	Comcast Cable Communications Management, LLC	GA	1	133 W. Norris Street Adrian Johnson, GA, 31002	authorized	3	Scientifi Atlanta	1	32° 31' 31.6" N	82° 35' 28.6" W	3700	4200	07/18/2033		
E181661	SES-REG-20180731-02600	Comcast Cable Communications Management, LLC	GA	2	133 W. Norris Street Adrian Johnson, GA, 31002	authorized	3	Scientifi Atlanta	1	32° 31' 31.7" N	82° 35' 28.9" W	3700	4200	07/18/2033		
E181661	SES-REG-20180731-02600	Comcast Cable Communications Management, LLC	GA	5	133 W. Norris Street Adrian Johnson, GA, 31002	authorized	3	Scientifi Atlanta	1	32° 31' 32.0" N	82° 35' 28.8" W	3700	4200	07/18/2033		
E181661	SES-REG-20180731-02600	Comcast Cable Communications Management, LLC	GA	4	133 W. Norris Street Adrian Johnson, GA, 31002	authorized	6	Scientifi Atlanta	1	32° 31' 32.3" N	82° 35' 29.6" W	3700	4200	07/18/2033		
E181661	SES-REG-20180731-02600	Comcast Cable Communications Management, LLC	GA	3	133 W. Norris Street Adrian Johnson, GA, 31002	authorized	3	Scientifi Atlanta	1	32° 31' 31.8" N	82° 35' 29.3" W	3700	4200	07/18/2033		
E181693	SES-REG-20180803-02638	Comcast Cable Communications Management, LLC	TN	2	1231 Greenbrier Road Ashland City, Cheatham, TN, 38485	authorized	3.4	Prodelin	1	36° 16' 50.0" N	36° 16' 50.0" N	3700	4200	07/20/2033		
E181693	SES-REG-20180803-02638	Comcast Cable Communications Management, LLC	TN	2	1231 Greenbrier Road Ashland City, Cheatham, TN, 38485	authorized	3.5	Prodelin	2	36° 16' 50.0" N	87° 7' 26.0" W	3700	4200	07/20/2033		
E181693	SES-REG-20180803-02638	Comcast Cable Communications Management, LLC	TN	1	1231 Greenbrier Road Ashland City, Cheatham, TN, 38485	authorized	3.8	DH	1	36° 16' 47.0" N	87° 7' 21.0" W	3700	4200	07/20/2033		
E181693	SES-REG-20180803-02638	Comcast Cable Communications Management, LLC	TN	2	1231 Greenbrier Road Ashland City, Cheatham, TN, 38485	authorized	3	Prodelin	1	36° 16' 50.0" N	36° 16' 50.0" N	3700	4200	07/20/2033		
E181695	SES-REG-20180803-02639	Comcast Cable Communications Management, LLC	GA	1	359 Thelma Hwy/Hwy 187 Homerville, Clinch, GA, 31634	authorized	5	Microdyne SATRO 5M	6	31° 0' 46.9" N	82° 45' 16.5" W	3700	4200	07/21/2033		
E181696	SES-REG-20180810-02640	Comcast Cable Communications Management, LLC	FL	9	26102 Bonita Grande Drive Bonita Springs, Lee, FL, 34135	authorized	3	Scientifi Atlanta	1	26° 21' 28.0" N	81° 44' 31.4" W	3700	4200	07/20/2033		
E181696	SES-REG-20180810-02640	Comcast Cable Communications Management, LLC	FL	11	26102 Bonita Grande Drive Bonita Springs, Lee, FL, 34135	authorized	3	Scientifi Atlanta	1	26° 21' 28.2" N	81° 44' 31.6" W	3700	4200	07/20/2033		
E181696	SES-REG-20180810-02640	Comcast Cable Communications Management, LLC	FL	15	26102 Bonita Grande Drive Bonita Springs, Lee, FL, 26102	authorized	3	Scientifi Atlanta	1	26° 21' 28.5" N	81° 44' 31.8" W	3700	4200	07/20/2033		
E181696	SES-REG-20180810-02640	Comcast Cable Communications Management, LLC	FL	13	26102 Bonita Grande Drive Bonita Springs, Lee, FL, 26102	authorized	4.5	Scientifi Atlanta SA1	1	26° 21' 28.9" N	81° 44' 32.4" W	3700	4200	07/20/2033		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E181696	SES-REG-20180810-02640	Comcast Cable Communications Management, LLC	FL	1	26102 Bonita Grande Drive Bonita Springs, Lee, FL, 26102	authorized	4.5	Scientific Atlanta SA2	1	26° 21' 28.9" N	89° 50' 32.4" W	3700	4200	07/20/2033		
E181696	SES-REG-20180810-02640	Comcast Cable Communications Management, LLC	FL	9	26102 Bonita Grande Drive Bonita Springs, Lee, FL, 34135	authorized	7	Scientific Atlanta 7M SA1	1	26° 21' 25.8" N	81° 44' 32.1" W	3700	4200	07/20/2033		
E181696	SES-REG-20180810-02640	Comcast Cable Communications Management, LLC	FL	12	26102 Bonita Grande Drive Bonita Springs, Lee, FL, 34135	authorized	7	Scientific Atlanta 7M SA10	1	26° 21' 27.7" N	81° 44' 32.7" W	3700	4200	07/20/2033		
E181696	SES-REG-20180810-02640	Comcast Cable Communications Management, LLC	FL	2	26102 Bonita Grande Drive Bonita Springs, Lee, FL, 34135	authorized	7	Scientific Atlanta 7M SA2	1	26° 21' 26.0" N	81° 44' 32.4" W	3700	4200	07/20/2033		
E181696	SES-REG-20180810-02640	Comcast Cable Communications Management, LLC	FL	3	26102 Bonita Grande Drive Bonita Springs, Lee, FL, 34135	authorized	7	Scientific Atlanta 7M SA3	1	26° 21' 26.4" N	81° 44' 32.9" W	3700	4200	07/20/2033		
E181696	SES-REG-20180810-02640	Comcast Cable Communications Management, LLC	FL	4	26102 Bonita Grande Drive Bonita Springs, Lee, FL, 34135	authorized	7	Scientific Atlanta 7M SA4	1	26° 21' 26.6" N	81° 44' 33.2" W	3700	4200	07/20/2033		
E181696	SES-REG-20180810-02640	Comcast Cable Communications Management, LLC	FL	5	26102 Bonita Grande Drive Bonita Springs, Lee, FL, 26102	authorized	7	Scientific Atlanta 7M SA5	1	26° 21' 28.5" N	81° 44' 31.8" W	3700	4200	07/20/2033		
E181696	SES-REG-20180810-02640	Comcast Cable Communications Management, LLC	FL	6	26102 Bonita Grande Drive Bonita Springs, Lee, FL, 34135	authorized	7	Scientific Atlanta 7M SA6	1	26° 21' 27.5" N	81° 44' 32.4" W	3700	4200	07/20/2033		
E181696	SES-REG-20180810-02640	Comcast Cable Communications Management, LLC	FL	7	26102 Bonita Grande Drive Bonita Springs, Lee, FL, 34135	authorized	7	Scientific Atlanta 7M SA7	1	26° 21' 26.2" N	81° 44' 32.6" W	3700	4200	07/20/2033		
E181696	SES-REG-20180810-02640	Comcast Cable Communications Management, LLC	FL	8	26102 Bonita Grande Drive Bonita Springs, Lee, FL, 34135	authorized	7	Scientific Atlanta 7M SA8	1	26° 21' 27.9" N	81° 44' 33.0" W	3700	4200	07/20/2033		
E181696	SES-REG-20180810-02640	Comcast Cable Communications Management, LLC	FL	10	26102 Bonita Grande Drive Bonita Springs, Lee, FL, 26102	authorized	7	Scientific Atlanta 7M SA9	1	26° 21' 28.1" N	81° 44' 33.3" W	3700	4200	07/20/2033		
E181698	SES-REG-20180803-02641	Comcast Cable Communications Management, LLC	MS	1	1201 Ashley Road Brandon, Rankin, MS, 39042	authorized	3.8	Scientific Atlanta 8003	2	32° 8' 16.8" N	89° 50' 12.3" W	3700	4200	07/20/2033		
E181699	SES-REG-20180803-02642	Comcast Cable Communications Management, LLC	TN	2	2030 E. Polymer Dr Chattanooga, Hamilton, TN, 37402	authorized	2.8	Scientific Atlanta 9000	1	35° 2' 39.0" N	85° 11' 18.0" W	3700	4200	07/21/2033		
E181699	SES-REG-20180803-02642	Comcast Cable Communications Management, LLC	TN	2	2030 E. Polymer Dr Chattanooga, Hamilton, TN, 37402	authorized	3.8	Patriot	1	35° 2' 38.4" N	85° 11' 20.2" W	3700	4200	07/21/2033		
E181699	SES-REG-20180803-02642	Comcast Cable Communications Management, LLC	TN	1	2030 E. Polymer Dr Chattanooga, Hamilton, TN, 37402	authorized	3.8	Patriot	1	35° 2' 39.0" N	85° 11' 20.2" W	3700	4200	07/21/2033		
E181699	SES-REG-20180803-02642	Comcast Cable Communications Management, LLC	TN	2	2030 E. Polymer Dr Chattanooga, Hamilton, TN, 37402	authorized	4.5	Scientific Atlanta 8345	7	35° 2' 39.0" N	85° 11' 20.2" W	3700	4200	07/21/2033		
E181700	SES-REG-20180803-02643	Comcast Cable Communications Management, LLC	FL	1	320 Union Avenue Crescent City, Putnam, FL, 32112	authorized	3.7	Patriot	1	29° 28' 19.4" N	81° 32' 12.9" W	3700	4200	07/21/2033		
E181700	SES-REG-20180803-02643	Comcast Cable Communications Management, LLC	FL	1	320 Union Avenue Crescent City, Putnam, FL, 32112	authorized	3.7	Comtech	1	29° 28' 19.4" N	81° 32' 12.9" W	3700	4200	07/21/2033		
E181701	SES-REG-20180803-02644	Comcast Cable Communications Management, LLC	LA	2	173 Jeffery Duplantis Road Houma, Terrebonne, LA, 70360	authorized	2.8	S/A	1	29° 37' 34.3" N	90° 45' 27.0" W	3700	4200	07/21/2033		
E181701	SES-REG-20180803-02644	Comcast Cable Communications Management, LLC	LA	1	173 Jeffery Duplantis Road Houma, Terrebonne, LA, 70360	authorized	4.5	SATCOM GE1	1	29° 37' 34.3" N	90° 45' 26.3" W	3700	4200	07/21/2033		
E181701	SES-REG-20180803-02644	Comcast Cable Communications Management, LLC	LA	2	173 Jeffery Duplantis Road Houma, Terrebonne, LA, 70360	authorized	4.5	SATCOM GE2	1	29° 37' 34.3" N	90° 45' 27.0" W	3700	4200	07/21/2033		
E181701	SES-REG-20180803-02644	Comcast Cable Communications Management, LLC	LA	1	173 Jeffery Duplantis Road Houma, Terrebonne, LA, 70360	authorized	4.5	Patriot pat1	1	29° 37' 34.3" N	90° 45' 26.3" W	3700	4200	07/21/2033		
E181701	SES-REG-20180803-02644	Comcast Cable Communications Management, LLC	LA	3	173 Jeffery Duplantis Road Houma, Terrebonne, LA, 70360	authorized	4.5	Patriot pat2	1	29° 37' 34.3" N	90° 45' 27.4" W	3700	4200	07/21/2033		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E181701	SES-REG-20180803-02644	Comcast Cable Communications Management, LLC	LA	1	173 Jeffery Duplantis Road Houma, Terrebonne, LA, 70360	authorized	4.5	S/A	1	29° 37' 34.3" N	90° 45' 26.3" W	3700	4200	07/21/2033		
E181701	SES-REG-20180803-02644	Comcast Cable Communications Management, LLC	LA	3	173 Jeffery Duplantis Road Houma, Terrebonne, LA, 70360	authorized	5	Comtech	1	29° 37' 34.3" N	90° 45' 27.0" W	3700	4200	07/21/2033		
E181701	SES-REG-20180803-02644	Comcast Cable Communications Management, LLC	LA	2	173 Jeffery Duplantis Road Houma, Terrebonne, LA, 70360	authorized	5	Comtech	1	29° 37' 34.3" N	90° 45' 27.4" W	3700	4200	07/21/2033		
E181702	SES-REG-20180803-02645	Comcast Cable Communications Management, LLC	SC	3	67 Meadowbrook Dr Ladys Island, Beaufort, SC, 29907	authorized	2	Harris	7	32° 24' 29.5" N	80° 38' 54.9" W	3700	4200	07/22/2033		
E181702	SES-REG-20180803-02645	Comcast Cable Communications Management, LLC	SC	5	67 Meadowbrook Dr Ladys Island, Beaufort, SC, 29907	authorized	3.8	Patriot PAT3	4	32° 24' 29.7" N	80° 38' 55.7" W	3700	4200	07/22/2033		
E181702	SES-REG-20180803-02645	Comcast Cable Communications Management, LLC	SC	6	67 Meadowbrook Dr Ladys Island, Beaufort, SC, 29907	authorized	3.8	Patriot PAT4	2	32° 24' 29.8" N	80° 38' 55.3" W	3700	4200	07/22/2033		
E181702	SES-REG-20180803-02645	Comcast Cable Communications Management, LLC	SC	7	67 Meadowbrook Dr Ladys Island, Beaufort, SC, 29907	authorized	3.8	Patriot PAT5	3	32° 24' 29.7" N	80° 38' 55.5" W	3700	4200	07/22/2033		
E181702	SES-REG-20180803-02645	Comcast Cable Communications Management, LLC	SC	2	67 Meadowbrook Dr Ladys Island, Beaufort, SC, 29907	authorized	3.8	Patriot PAT1	6	32° 24' 29.2" N	80° 38' 55.5" W	3700	4200	07/22/2033		
E181702	SES-REG-20180803-02645	Comcast Cable Communications Management, LLC	SC	1	67 Meadowbrook Dr Ladys Island, Beaufort, SC, 29907	authorized	3.8	Patriot PAT2	5	32° 24' 29.4" N	80° 38' 55.6" W	3700	4200	07/22/2033		
E181702	SES-REG-20180803-02645	Comcast Cable Communications Management, LLC	SC	4	67 Meadowbrook Dr Ladys Island, Beaufort, SC, 29907	authorized	5	Scientific Atlanta SA5M	1	32° 24' 29.6" N	80° 38' 55.0" W	3700	4200	07/22/2033		
E181703	SES-REG-20180803-02646	Comcast Cable Communications Management, LLC	TN	1	5720 Asheville Hwy Knoxville, Knox, TN, 37902	authorized	3.8	Patriot	1	36° 0' 34.1" N	83° 50' 15.9" W	3700	4200	07/22/2033		
E181703	SES-REG-20180803-02646	Comcast Cable Communications Management, LLC	TN	2	100 B. Sharp's Ridge Memorial Drive Knoxville, Knox, TN, 37902	authorized	4.5	Scientific Atlanta	1	36° 0' 3.4" N	83° 57' 3.2" W	3700	4200	07/22/2033		
E181704	SES-REG-20180809-02647	Comcast Cable Communications Management, LLC	FL	1	111 SW Oakdale Road Mayo, Lafayette, FL, 32066	authorized	5	SATRO 5M	4	30° 3' 6.1" N	83° 11' 12.0" W	3700	4200	07/26/2033		
E181705	SES-REG-20180809-02648	Comcast Cable Communications Management, LLC	FL	1	North Temple Starke, Bradford, FL, 32091	authorized	3.2	Scientific Atlanta	3	29° 57' 51.3" N	82° 6' 9.9" W	3700	4200	07/26/2033		
E181706	SES-REG-20180809-02649	Comcast Cable Communications Management, LLC	GA	1	24473 Hwy Waynesville, Brantley, GA, 31566	authorized	3.7	AFC	1	31° 13' 42.7" N	81° 48' 8.2" W	3700	4200	07/26/2033		
E181706	SES-REG-20180809-02649	Comcast Cable Communications Management, LLC	GA	1	24473 Hwy Waynesville, Brantley, GA, 31566	authorized	3.7	Comtech	4	31° 13' 42.7" N	81° 48' 8.2" W	3700	4200	07/26/2033		
E181706	SES-REG-20180809-02649	Comcast Cable Communications Management, LLC	GA	1	24473 Hwy Waynesville, Brantley, GA, 31566	authorized	3.7	Patriot	1	31° 13' 42.7" N	81° 48' 8.2" W	3700	4200	07/26/2033		
E181707	SES-REG-20180809-02650	Comcast Cable Communications Management, LLC	MS	1	909 24th Avenue Meridian, Lauderdale, MS, 39301	authorized	2.8	Scientific Atlanta	1	32° 21' 59.4" N	88° 42' 10.3" W	3700	4200	07/26/2033		
E181707	SES-REG-20180809-02650	Comcast Cable Communications Management, LLC	MS	1	909 24th Avenue Meridian, Lauderdale, MS, 39301	authorized	3.8	Patriot	2	32° 21' 59.4" N	88° 42' 10.3" W	3700	4200	07/26/2033		
E181707	SES-REG-20180809-02650	Comcast Cable Communications Management, LLC	MS	1	909 24th Avenue Meridian, Lauderdale, MS, 39301	authorized	3.8	Patriot	3	32° 21' 59.4" N	88° 42' 10.3" W	3700	4200	07/26/2033		
E181707	SES-REG-20180809-02650	Comcast Cable Communications Management, LLC	MS	1	909 24th Avenue Meridian, Lauderdale, MS, 39301	authorized	5	Scientific Atlanta	4	32° 21' 59.4" N	88° 42' 10.3" W	3700	4200	07/26/2033		
E181709	SES-REG-20180809-02652	Comcast Cable Communications Management, LLC	GA	1	921 West Hwy Montezuma, Oglethorpe, GA, 31063	authorized	2.4	DH	3	32° 17' 43.4" N	84° 4' 37.2" W	3700	4200	07/26/2033		
E181709	SES-REG-20180809-02652	Comcast Cable Communications Management, LLC	GA	1	921 West Hwy Montezuma, Oglethorpe, GA, 31063	authorized	3.7	GD	3	32° 17' 43.4" N	84° 4' 37.2" W	3700	4200	07/26/2033		
E181709	SES-REG-20180809-02652	Comcast Cable Communications Management, LLC	GA	1	921 West Hwy Montezuma, Oglethorpe, GA, 31063	authorized	3.8	Patriot	1	32° 17' 43.4" N	84° 4' 37.2" W	3700	4200	07/26/2033		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E181709	SES-REG-20180809-02652	Comcast Cable Communications Management, LLC	GA	2	921 West Hwy Montezuma, Oglethorpe, GA, 31063	authorized	4.5	Viasat	1	32° 17' 44.2" N	84° 4' 37.2" W	3700	4200	07/26/2033		
E181709	SES-REG-20180809-02652	Comcast Cable Communications Management, LLC	GA	2	921 West Hwy Montezuma, Oglethorpe, GA, 31063	authorized	5	Scientific Atlanta 9000	1	32° 17' 44.2" N	84° 4' 37.2" W	3700	4200	07/26/2033		
E181710	SES-REG-20180809-02653	Comcast Cable Communications Management, LLC	GA	1	700 West Carver Street Montgomery, Mt Vernon, GA, 30445	authorized	3	Scientific Atlanta	1	32° 11' 33.0" N	82° 36' 30.0" W	3700	4200	07/26/2033		
E181710	SES-REG-20180809-02653	Comcast Cable Communications Management, LLC	GA	1	700 West Carver Street Montgomery, Mt Vernon, GA, 30445	authorized	4.5	Scientific Atlanta	2	32° 11' 33.0" N	82° 36' 30.0" W	3700	4200	07/26/2033		
E181710	SES-REG-20180809-02653	Comcast Cable Communications Management, LLC	GA	2	700 West Carver Street Montgomery, Mt Vernon, GA, 30445	authorized	3	Scientific Atlanta	1	32° 11' 34.0" N	82° 36' 30.0" W	3700	4200	07/26/2033		
E181710	SES-REG-20180809-02653	Comcast Cable Communications Management, LLC	GA	2	700 West Carver Street Montgomery, Mt Vernon, GA, 30445	authorized	4	Scientific Atlanta	1	32° 11' 34.0" N	82° 36' 30.0" W	3700	4200	07/26/2033		
E181710	SES-REG-20180809-02653	Comcast Cable Communications Management, LLC	GA	2	700 West Carver Street Montgomery, Mt Vernon, GA, 30445	authorized	6	Scientific Atlanta	1	32° 11' 34.0" N	82° 36' 30.0" W	3700	4200	07/26/2033		
E181710	SES-REG-20180809-02653	Comcast Cable Communications Management, LLC	GA	3	700 West Carver Street Montgomery, Mt Vernon, GA, 30445	authorized	3	Scientific Atlanta	1	32° 11' 34.0" N	82° 36' 31.0" W	3700	4200	07/26/2033		
E181710	SES-REG-20180809-02653	Comcast Cable Communications Management, LLC	GA	3	700 West Carver Street Montgomery, Mt Vernon, GA, 30445	authorized	6	Scientific Atlanta	1	32° 11' 34.0" N	82° 36' 31.0" W	3700	4200	07/26/2033		
E181711	SES-REG-20180809-02654	Comcast Cable Communications Management, LLC	LA	1	6529 Quilen Shreveport, Caddo, LA, 71107	authorized	10	Scientific Atlanta 8003	1	32° 26' 53.3" N	93° 47' 35.6" W	3700	4200	07/26/2033		
E181711	SES-REG-20180809-02654	Comcast Cable Communications Management, LLC	LA	1	6529 Quilen Shreveport, Caddo, LA, 71107	authorized	3.8	Scientific Atlanta 8003	1	32° 26' 53.3" N	93° 47' 35.6" W	3700	4200	07/26/2033		
E181711	SES-REG-20180809-02654	Comcast Cable Communications Management, LLC	LA	1	6529 Quilen Shreveport, Caddo, LA, 71107	authorized	4.6	Scientific Atlanta 8003	1	32° 26' 53.3" N	93° 47' 35.6" W	3700	4200	07/26/2033		
E181711	SES-REG-20180809-02654	Comcast Cable Communications Management, LLC	LA	1	6529 Quilen Shreveport, Caddo, LA, 71107	authorized	5	Scientific Atlanta 8003	1	32° 26' 53.3" N	93° 47' 35.6" W	3700	4200	07/26/2033		
E181711	SES-REG-20180809-02654	Comcast Cable Communications Management, LLC	LA	2	12807 Main Street Shreveport, Caddo, LA, 71107	authorized	4.6	Scientific Atlanta 8003	1	32° 49' 37.3" N	93° 50' 41.8" W	3700	4200	07/26/2033		
E181711	SES-REG-20180809-02654	Comcast Cable Communications Management, LLC	LA	2	12807 Main Street Shreveport, Caddo, LA, 71107	authorized	5	Scientific Atlanta	2	32° 49' 37.3" N	93° 50' 41.8" W	3700	4200	07/26/2033		
E181712	SES-REG-20180809-02655	Comcast Cable Communications Management, LLC	FL	1	1310 Mahan Drive Monticello, Jefferson, FL, 32344	authorized	3	SATRO 5M	1	30° 32' 50.4" N	83° 53' 0.5" W	3700	4200	07/26/2033		
E181712	SES-REG-20180809-02655	Comcast Cable Communications Management, LLC	FL	1	1310 Mahan Drive Monticello, Jefferson, FL, 32344	authorized	3	SATRO 5M	3	30° 32' 50.4" N	83° 53' 0.5" W	3700	4200	07/26/2033		
E181712	SES-REG-20180809-02655	Comcast Cable Communications Management, LLC	FL	1	1310 Mahan Drive Monticello, Jefferson, FL, 32344	authorized	7	SATRO 5M	1	30° 32' 50.4" N	83° 53' 0.5" W	3700	4200	07/26/2033		
E181713	SES-REG-20180809-02656	Comcast Cable Communications Management, LLC	TN	1	4457 Hwy 49 West Vanleer, Dickson, TN, 37181	authorized	3.8	Comtech	1	36° 13' 36.0" N	87° 26' 37.0" W	3700	4200	07/26/2033		
E181713	SES-REG-20180809-02656	Comcast Cable Communications Management, LLC	TN	1	4457 Hwy 49 West Vanleer, Dickson, TN, 37181	authorized	3	Comtech	1	36° 13' 36.0" N	87° 26' 37.0" W	3700	4200	07/26/2033		
E181713	SES-REG-20180809-02656	Comcast Cable Communications Management, LLC	TN	1	4457 Hwy 49 West Vanleer, Dickson, TN, 37181	authorized	3	Comtech	1	36° 13' 36.0" N	87° 26' 37.0" W	3700	4200	07/26/2033		
E181713	SES-REG-20180809-02656	Comcast Cable Communications Management, LLC	TN	1	4457 Hwy 49 West Vanleer, Dickson, TN, 37181	authorized	3.8	Comtech	1	36° 13' 36.0" N	87° 26' 37.0" W	3700	4200	07/26/2033		
E181714	SES-REG-20180809-02657	Comcast Cable Communications Management, LLC	FL	1	600 Northwest Building Avenue Waldo, Alachua, FL, 32694	authorized	3.2	Scientific Atlanta	2	29° 47' 42.3" N	82° 10' 17.4" W	3700	4200	07/26/2033		
E181715	SES-REG-20180809-02658	Comcast Cable Communications Management, LLC	MI	1	24744 Eureka Road Taylor, Wayne, MI, 48180	authorized	4.6	Viasat	8	42° 12' 1.6" N	83° 16' 29.1" W	3700	4200	07/26/2033		
E181715	SES-REG-20180809-02658	Comcast Cable Communications Management, LLC	MI	1	24744 Eureka Road Taylor, Wayne, MI, 48180	authorized	5	DH	3	42° 12' 1.6" N	83° 16' 29.1" W	3700	4200	07/26/2033		
E181715	SES-REG-20180809-02658	Comcast Cable Communications Management, LLC	MI	1	24744 Eureka Road Taylor, Wayne, MI, 48180	authorized	3.8	Patriot PRT380	1	42° 12' 1.6" N	83° 16' 29.1" W	3700	4200	07/26/2033		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E181715	SES-REG-20180809-02658	Comcast Cable Communications Management, LLC	MI	1	24744 Eureka Road Taylor, Wayne, MI, 48180	authorized	3.1	Patriot 3M	3	42° 12' 1.6" N	83° 16' 29.1" W	3700	4200	07/26/2033		
E181715	SES-REG-20180809-02658	Comcast Cable Communications Management, LLC	MI	1	24744 Eureka Road Taylor, Wayne, MI, 48180	authorized	4.5	Viasat	2	42° 12' 1.6" N	83° 16' 29.1" W	3700	4200	07/26/2033		
E181717	SES-REG-20180803-02666	Comcast Cable Communications Management, LLC	FL	1	1846 Hamilton Avenue Jennings, Hamilton, FL, 32053	authorized	5	SATRO 5M	3	30° 35' 40.0" N	83° 6' 57.0" W	3700	4200	07/22/2033		
E181718	SES-REG-20180803-02667	Comcast Cable Communications Management, LLC	GA	2	2 Tower Road Glenville, Tattnall, GA, 30427	authorized	3	Scientific Atlanta	1	31° 56' 1.0" N	81° 54' 34.3" W	3700	4200	07/22/2033		
E181718	SES-REG-20180803-02667	Comcast Cable Communications Management, LLC	GA	2	2 Tower Road Glenville, Tattnall, GA, 30427	authorized	3	Patriot	1	31° 56' 0.8" N	84° 54' 34.5" W	3700	4200	07/22/2033		
E181718	SES-REG-20180803-02667	Comcast Cable Communications Management, LLC	GA	5	2 Tower Road Glenville, Tattnall, GA, 30427	authorized	3.6	Patriot	1	31° 56' 1.0" N	81° 54' 35.2" W	3700	4200	07/22/2033		
E181718	SES-REG-20180803-02667	Comcast Cable Communications Management, LLC	GA	3	2 Tower Road Glenville, Tattnall, GA, 30427	authorized	3.6	Patriot	1	31° 56' 1.4" N	81° 54' 35.1" W	3700	4200	07/22/2033		
E181718	SES-REG-20180803-02667	Comcast Cable Communications Management, LLC	GA	4	2 Tower Road Glenville, Tattnall, GA, 30427	authorized	4.8	Patriot	1	31° 56' 1.3" N	81° 54' 34.6" W	3700	4200	07/22/2033		
E181718	SES-REG-20180803-02667	Comcast Cable Communications Management, LLC	GA	1	2 Tower Road Glenville, Tattnall, GA, 30427	authorized	4.8	Scientific Atlanta	1	31° 56' 1.0" N	81° 54' 34.3" W	3700	4200	07/22/2033		
E181719	SES-REG-20180803-02668	Comcast Cable Communications Management, LLC	GA	1	100 Bohannon Road Grantville, Cowetta, GA, 30220	authorized	2.4	GD1	1	33° 14' 34.3" N	84° 50' 55.5" W	3700	4200	07/21/2033		
E181719	SES-REG-20180803-02668	Comcast Cable Communications Management, LLC	GA	1	100 Bohannon Road Grantville, Cowetta, GA, 30220	authorized	3.7	GD2	5	33° 14' 34.3" N	84° 50' 55.5" W	3700	4200	07/21/2033		
E181719	SES-REG-20180803-02668	Comcast Cable Communications Management, LLC	GA	1	100 Bohannon Road Grantville, Cowetta, GA, 30220	authorized	3.8	Patriot PAT	1	33° 14' 34.3" N	84° 50' 55.5" W	3700	4200	07/21/2033		
E181719	SES-REG-20180803-02668	Comcast Cable Communications Management, LLC	GA	1	100 Bohannon Road Grantville, Cowetta, GA, 30220	authorized	4.2	DH Satellite	1	33° 14' 34.3" N	84° 50' 55.5" W	3700	4200	07/21/2033		
E181719	SES-REG-20180803-02668	Comcast Cable Communications Management, LLC	GA	1	100 Bohannon Road Grantville, Cowetta, GA, 30220	authorized	4.8	Scientific Atlanta SA 4.8M	1	33° 14' 34.3" N	84° 50' 55.5" W	3700	4200	07/21/2033		
E181801	SES-REG-20180809-02845	Comcast Cable Communications Management, LLC	GA	2	1394 Kings Road Midway, Liberty, GA, 31320	authorized	3.9	Scientific Atlanta	1	31° 41' 47.8" N	81° 16' 2.5" W	3700	4200	07/31/2033		
E181801	SES-REG-20180809-02845	Comcast Cable Communications Management, LLC	GA	2	1394 Kings Road Midway, Liberty, GA, 31320	authorized	4.1	Scientific Atlanta	1	31° 41' 48.0" N	81° 16' 2.7" W	3700	4200	07/31/2033		
E181801	SES-REG-20180809-02845	Comcast Cable Communications Management, LLC	GA	1	1394 Kings Road Midway, Liberty, GA, 31320	authorized	3.9	Scientific Atlanta	1	31° 41' 48.0" N	81° 16' 2.7" W	3700	4200	07/31/2033		
E181801	SES-REG-20180809-02845	Comcast Cable Communications Management, LLC	GA	3	1394 Kings Road Midway, Liberty, GA, 31320	authorized	3.9	Scientific Atlanta	1	31° 41' 48.1" N	81° 16' 4.4" W	3700	4200	07/31/2033		
E181801	SES-REG-20180809-02845	Comcast Cable Communications Management, LLC	GA	4	1394 Kings Road Midway, Liberty, GA, 31320	authorized	4.1	Scientific Atlanta	1	31° 41' 48.2" N	81° 16' 2.6" W	3700	4200	07/31/2033		
E181801	SES-REG-20180809-02845	Comcast Cable Communications Management, LLC	GA	5	1394 Kings Road Midway, Liberty, GA, 31320	authorized	4.1	Scientific Atlanta	1	31° 41' 47.9" N	81° 16' 2.8" W	3700	4200	07/31/2033		
E181815	SES-REG-20180809-02860	Comcast Cable Communications Management, LLC	GA	2	108 Ballpark Drive Soperton, Treutlen, GA, 30457	authorized	3	Scientific Atlanta	1	32° 21' 52.7" N	82° 36' 41.3" W	3700	4200	4/8/33		
E181815	SES-REG-20180809-02860	Comcast Cable Communications Management, LLC	GA	2	108 Ballpark Drive Soperton, Treutlen, GA, 30457	authorized	3	Scientific Atlanta	1	32° 21' 53.0"	82° 46' 40.5" W	3700	4200	4/8/33		
E181815	SES-REG-20180809-02860	Comcast Cable Communications Management, LLC	GA	3	108 Ballpark Drive Soperton, Treutlen, GA, 30457	authorized	3	Scientific Atlanta	1	32° 21' 53.2" N	82° 36' 40.7" W	3700	4200	4/8/33		
E181815	SES-REG-20180809-02860	Comcast Cable Communications Management, LLC	GA	4	108 Ballpark Drive Soperton, Treutlen, GA, 30457	authorized	4	Scientific Atlanta	1	32° 21' 53.2" N	82° 36' 41.6" W	3700	4200	4/8/33		
E181815	SES-REG-20180809-02860	Comcast Cable Communications Management, LLC	GA	5	108 Ballpark Drive Soperton, Treutlen, GA, 30457	authorized	3	Scientific Atlanta	1	32° 21' 53.3" N	82° 36' 41.0" W	3700	4200	4/8/33		
E181815	SES-REG-20180809-02860	Comcast Cable Communications Management, LLC	GA	5	108 Ballpark Drive Soperton, Treutlen, GA, 30457	authorized	4	Scientific Atlanta	1	32° 21' 53.3" N	82° 36' 41.0" W	3700	4200	4/8/33		
E181815	SES-REG-20180809-02860	Comcast Cable Communications Management, LLC	GA	5	108 Ballpark Drive Soperton, Treutlen, GA, 30457	authorized	6	Scientific Atlanta	1	32° 21' 53.3" N	82° 36' 41.0" W	3700	4200	4/8/33		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E181820	SES-REG-20180809-02865	Comcast Cable Communications Management, LLC	GA	5	1260 Halcyondale Road Sylvania, Screven, GA, 30467	authorized	3.2	Scientific Atlanta	1	32° 42' 30.4" N	81° 37' 37.4" W	3700	4200	07/31/2033		
E181820	SES-REG-20180809-02865	Comcast Cable Communications Management, LLC	GA	2	1260 Halcyondale Road Sylvania, Screven, GA, 30467	authorized	3.8	Scientific Atlanta	1	32° 42' 30.5" N	81° 37' 37.2" W	3700	4200	07/31/2033		
E181820	SES-REG-20180809-02865	Comcast Cable Communications Management, LLC	GA	3	1260 Halcyondale Road Sylvania, Screven, GA, 30467	authorized	5	Scientific Atlanta	1	32° 42' 30.6" N	81° 37' 37.9" W	3700	4200	07/31/2033		
E181820	SES-REG-20180809-02865	Comcast Cable Communications Management, LLC	GA	4	1260 Halcyondale Road Sylvania, Screven, GA, 30467	authorized	3.2	Scientific Atlanta	1	32° 42' 30.8" N	81° 37' 36.5" W	3700	4200	07/31/2033		
E181820	SES-REG-20180809-02865	Comcast Cable Communications Management, LLC	GA	6	1260 Halcyondale Road Sylvania, Screven, GA, 30467	authorized	3.2	Scientific Atlanta	1	32° 42' 30.8" N	81° 37' 36.7" W	3700	4200	07/31/2033		
E181820	SES-REG-20180809-02865	Comcast Cable Communications Management, LLC	GA	1	1260 Halcyondale Road Sylvania, Screven, GA, 30467	authorized	3.2	Scientific Atlanta	1	32° 42' 30.6" N	81° 37' 37.6" W	3700	4200	07/31/2033		
E181822	SES-REG-20180809-02867	Comcast Cable Communications Management, LLC	TN	1	Coletown Road Westmoreland, Summer, TN 37186	authorized	3	Patriot	1	36° 33' 14.0" N	86° 15' 36.0" W	3700	4200	5/8/33		
E181822	SES-REG-20180809-02867	Comcast Cable Communications Management, LLC	TN	1	Coletown Road Westmoreland, Summer, TN 37186	authorized	3.8	Scientific Atlanta 8005	1	36° 33' 14.0" N	86° 15' 36.0" W	3700	4200	5/8/33		
E181825	SES-REG-20180809-02870	Comcast Cable Communications Management, LLC	GA	5	310 Kents Lane Wrightsville, Johnson, GA, 31096	authorized	3	Scientific Atlanta	1	32° 43' 34.2" N	82° 42' 43.9" W	3700	4200	07/27/2033		
E181825	SES-REG-20180809-02870	Comcast Cable Communications Management, LLC	GA	4	310 Kents Lane Wrightsville, Johnson, GA, 31096	authorized	3	Scientific Atlanta	1	32° 43' 34.3" N	82° 42' 44.3" W	3700	4200	07/27/2033		
E181825	SES-REG-20180809-02870	Comcast Cable Communications Management, LLC	GA	3	310 Kents Lane Wrightsville, Johnson, GA, 31096	authorized	2	Scientific Atlanta	1	32° 43' 34.5" N	82° 42' 44.6" W	3700	4200	07/27/2033		
E181825	SES-REG-20180809-02870	Comcast Cable Communications Management, LLC	GA	2	310 Kents Lane Wrightsville, Johnson, GA, 31096	authorized	3	Scientific Atlanta	1	32° 43' 34.6" N	82° 42' 43.7" W	3700	4200	07/27/2033		
E181825	SES-REG-20180809-02870	Comcast Cable Communications Management, LLC	GA	1	310 Kents Lane Wrightsville, Johnson, GA, 31096	authorized	3	Scientific Atlanta	1	32° 43' 34.9" N	82° 42' 44.4" W	3700	4200	07/27/2033		
E181825	SES-REG-20180809-02870	Comcast Cable Communications Management, LLC	GA	6	310 Kents Lane Wrightsville, Johnson, GA, 31096	authorized	4	Scientific Atlanta	1	32° 43' 34.2" N	82° 42' 44.0" W	3700	4200	07/27/2033		
E181826	SES-REG-20180809-02871	Comcast Cable Communications Management, LLC	TN	2	Box 15 Hwy 70 Woodbury, Cannon, TN, 37190	authorized	3.8	Comtech	1	35° 49' 8.6" N	86° 2' 9.7" W	3700	4200	07/27/2033		
E181826	SES-REG-20180809-02871	Comcast Cable Communications Management, LLC	TN	1	Box 15 Hwy 70 Woodbury, Cannon, TN, 37190	authorized	3.8	Comtech	1	35° 49' 8.8" N	86° 2' 9.8" W	3700	4200	07/27/2033		
E181826	SES-REG-20180809-02871	Comcast Cable Communications Management, LLC	TN	3	Box 15 Hwy 70 Woodbury, Cannon, TN, 37190	authorized	4.5	Scientific Atlanta	1	35° 49' 8.8" N	86° 2' 10.2" W	3700	4200	07/27/2033		
E181826	SES-REG-20180809-02871	Comcast Cable Communications Management, LLC	TN	4	Box 15 Hwy 70 Woodbury, Cannon, TN, 37190	authorized	3.2	Scientific Atlanta	1	35° 49' 8.9" N	86° 2' 10.2" W	3700	4200	07/27/2033		
E181834	SES-REG-20180921-02893	Comcast Cable Communications Management, LLC	AL	1	3248 Springhill Avenue Mobile, AL, 36602	authorized	5	Scientific Atlanta	10	30° 42' 13.1" N	88° 7' 5.1" W	3700	4200	12/9/33		
E181895	SES-REG-20180809-03093	Comcast Cable Communications Management, LLC	TX	1	18500 Keith Harrow Blvd. Houston, Harris, TX, 77084	authorized	7	ATCI	1	29° 51' 22.5" N	95° 41' 5.9" W	3700	4200	5/8/33		
E181924	SES-REG-20180809-03133	Comcast Cable Communications Management, LLC	TX	1	550 W 22nd Street Portales, Roosevelt, NM, 88130	authorized	5	Andrew	1	34° 9' 48.0" N	103° 20' 20.0" W	3700	4200	8/8/33		
E181924	SES-REG-20180809-03133	Comcast Cable Communications Management, LLC	TX	1	550 W 22nd Street Portales, Roosevelt, NM, 88130	authorized	3.8	Comtech	2	34° 9' 48.0" N	103° 20' 20.0" W	3700	4200	8/8/33		
E181924	SES-REG-20180809-03133	Comcast Cable Communications Management, LLC	TX	1	550 W 22nd Street Portales, Roosevelt, NM, 88130	authorized	3.8	Comtech	1	34° 9' 48.0" N	103° 20' 20.0" W	3700	4200	8/8/33		
E181924	SES-REG-20180809-03133	Comcast Cable Communications Management, LLC	TX	1	550 W 22nd Street Portales, Roosevelt, NM, 88130	authorized	3.6	DH	1	34° 9' 48.0" N	103° 20' 20.0" W	3700	4200	8/8/33		
E181924	SES-REG-20180809-03133	Comcast Cable Communications Management, LLC	TX	1	550 W 22nd Street Portales, Roosevelt, NM, 88130	authorized	3.8	Patriot PRT380	2	34° 9' 48.0" N	103° 20' 20.0" W	3700	4200	8/8/33		
E181924	SES-REG-20180809-03133	Comcast Cable Communications Management, LLC	TX	1	550 W 22nd Street Portales, Roosevelt, NM, 88130	authorized	3.8	Prodelin	1	34° 9' 48.0" N	103° 20' 20.0" W	3700	4200	8/8/33		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E181925	SES-REG-20180809-03134	Comcast Cable Communications Management, LLC	GA	1	141 Park of Commerce Drive Savannah, Chatham, GA, 31405	authorized	3	Scientific Atlanta	1	32° 3' 49.4" N	81° 9' 55.5" W	3700	4200	4/8/33		
E181925	SES-REG-20180809-03134	Comcast Cable Communications Management, LLC	GA	10	141 Park of Commerce Drive Savannah, Chatham, GA, 31405	authorized	3	Scientific Atlanta	1	32° 3' 49.7" N	81° 9' 55.7" W	3700	4200	4/8/33		
E181925	SES-REG-20180809-03134	Comcast Cable Communications Management, LLC	GA	11	141 Park of Commerce Drive Savannah, Chatham, GA, 31405	authorized	4	Scientific Atlanta	1	32° 3' 50.7" N	81° 9' 55.7" W	3700	4200	4/8/33		
E181925	SES-REG-20180809-03134	Comcast Cable Communications Management, LLC	GA	12	141 Park of Commerce Drive Savannah, Chatham, GA, 31405	authorized	4	Scientific Atlanta	1	32° 3' 50.5" N	81° 9' 55.1" W	3700	4200	4/8/33		
E181925	SES-REG-20180809-03134	Comcast Cable Communications Management, LLC	GA	2	141 Park of Commerce Drive Savannah, Chatham, GA, 31405	authorized	4	Scientific Atlanta	1	32° 3' 49.5" N	81° 9' 55.8" W	3700	4200	4/8/33		
E181925	SES-REG-20180809-03134	Comcast Cable Communications Management, LLC	GA	3	141 Park of Commerce Drive Savannah, Chatham, GA, 31405	authorized	3	Scientific Atlanta	1	32° 3' 49.6" N	81° 9' 56.1" W	3700	4200	4/8/33		
E181925	SES-REG-20180809-03134	Comcast Cable Communications Management, LLC	GA	4	141 Park of Commerce Drive Savannah, Chatham, GA, 31405	authorized	4	Scientific Atlanta	1	32° 3' 49.7" N	81° 9' 55.4" W	3700	4200	4/8/33		
E181925	SES-REG-20180809-03134	Comcast Cable Communications Management, LLC	GA	5	141 Park of Commerce Drive Savannah, Chatham, GA, 31405	authorized	3	Scientific Atlanta	1	32° 3' 49.8" N	81° 9' 56.0" W	3700	4200	4/8/33		
E181925	SES-REG-20180809-03134	Comcast Cable Communications Management, LLC	GA	6	141 Park of Commerce Drive Savannah, Chatham, GA, 31405	authorized	4	Scientific Atlanta	1	32° 3' 50.0" N	81° 9' 55.3" W	3700	4200	4/8/33		
E181925	SES-REG-20180809-03134	Comcast Cable Communications Management, LLC	GA	7	141 Park of Commerce Drive Savannah, Chatham, GA, 31405	authorized	3	Scientific Atlanta	1	32° 3' 50.1" N	81° 9' 55.9" W	3700	4200	4/8/33		
E181925	SES-REG-20180809-03134	Comcast Cable Communications Management, LLC	GA	8	141 Park of Commerce Drive Savannah, Chatham, GA, 31405	authorized	4	Scientific Atlanta	1	32° 3' 50.2" N	81° 9' 55.2" W	3700	4200	4/8/33		
E181925	SES-REG-20180809-03134	Comcast Cable Communications Management, LLC	GA	9	141 Park of Commerce Drive Savannah, Chatham, GA, 31405	authorized	3	Scientific Atlanta	1	32° 3' 50.4" N	81° 9' 55.8" W	3700	4200	4/8/33		
E181826	SES-REG-20180809-02871	Comcast Cable Communications Management, LLC	TN	1	Box 15 Hwy 70 Woodbury, Cannon, TN, 37190	authorized	3.8	Comtech	1	35° 49' 8.6" N	86° 2' 9.7" W	3700	4200	07/27/2033		
E181826	SES-REG-20180809-02871	Comcast Cable Communications Management, LLC	TN	2	Box 15 Hwy 70 Woodbury, Cannon, TN, 37190	authorized	3.8	Comtech	1	35° 49' 8.8" N	86° 2' 9.8" W	3700	4200	07/27/2033		
E181826	SES-REG-20180809-02871	Comcast Cable Communications Management, LLC	TN	3	Box 15 Hwy 70 Woodbury, Cannon, TN, 37190	authorized	4.5	Scientific Atlanta	1	35° 49' 8.8" N	86° 2' 10.2" W	3700	4200	07/27/2033		
E181826	SES-REG-20180809-02871	Comcast Cable Communications Management, LLC	TN	4	Box 15 Hwy 70 Woodbury, Cannon, TN, 37190	authorized	3.2	Scientific Atlanta	1	35° 49' 8.9" N	86° 2' 10.2" W	3700	4200	07/27/2033		
E181982	SES-REG-20180809-03389	Comcast Cable Communications Management, LLC	GA	2	Old Swainsboro Road Twin City, Emanuel, GA, 30471	authorized	3.8	Scientific Atlanta	1	32° 35' 12.0" N	82° 9' 27.0" W	3700	4200	4/8/33		
E181982	SES-REG-20180809-03389	Comcast Cable Communications Management, LLC	GA	3	Old Swainsboro Road Twin City, Emanuel, GA, 30471	authorized	3.8	Scientific Atlanta	1	32° 35' 12.0" N	82° 9' 28.0" W	3700	4200	4/8/33		
E181982	SES-REG-20180809-03389	Comcast Cable Communications Management, LLC	GA	5	Old Swainsboro Road Twin City, Emanuel, GA, 30471	authorized	3.8	Scientific Atlanta	1	32° 35' 13.0" N	82° 9' 29.0" W	3700	4200	4/8/33		
E181982	SES-REG-20180809-03389	Comcast Cable Communications Management, LLC	GA	1	Old Swainsboro Road Twin City, Emanuel, GA, 30471	authorized	3.9	Scientific Atlanta	3	32° 35' 12.0" N	82° 9' 26.0" W	3700	4200	4/8/33		
E181982	SES-REG-20180809-03389	Comcast Cable Communications Management, LLC	GA	2	Old Swainsboro Road Twin City, Emanuel, GA, 30471	authorized	4.8	Scientific Atlanta	1	32° 35' 12.0" N	82° 9' 27.0" W	3700	4200	4/8/33		
E181982	SES-REG-20180809-03389	Comcast Cable Communications Management, LLC	GA	4	Old Swainsboro Road Twin City, Emanuel, GA, 30471	authorized	4.8	Scientific Atlanta	3	32° 35' 12.7" N	82° 9' 25.9" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	1	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	SA/SSE 8345	1	33° 49' 17.0" N	84° 12' 9.1" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	2	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	SA/SSE 8345	1	33° 49' 17.1" N	84° 12' 9.5" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	3	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	SA/SSE 8345	1	33° 49' 17.2" N	84° 12' 11.0" W	3700	4200	4/8/33		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	4	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	SA/SSE 8345	1	33° 49' 17.3" N	84° 12' 8.9" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	5	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	SA/SSE 8345	1	33° 49' 17.3" N	84° 12' 11.2" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	6	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	SA/SSE 8345	1	33° 49' 17.4" N	84° 12' 9.3" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	7	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	SA/SSE 8345	1	33° 49' 17.4" N	84° 12' 10.3" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	8	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	SA/SSE 8345	1	33° 49' 17.5" N	84° 12' 9.7" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	9	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	SA/SSE 8345	1	33° 49' 17.3" N	84° 12' 9.9" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	11	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	SA/SSE 8345	1	33° 49' 17.7" N	84° 12' 9.1" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	12	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	Patriot KING 450	1	33° 49' 17.7" N	84° 12' 10.2" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	13	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	Patriot KING 450	1	33° 49' 17.8" N	84° 12' 9.6" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	14	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	Patriot KING 450	1	33° 49' 17.5" N	84° 12' 11.3" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	15	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	Patriot KING 450	1	33° 49' 18.0" N	84° 12' 10.0" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	18	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	Patriot KING 450	1	33° 49' 18.5" N	84° 12' 9.6" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	23	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	Patriot KING 450	1	33° 49' 17.9" N	84° 12' 9.8" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	22	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	Patriot KING 450	1	33° 49' 18.6" N	84° 12' 9.8" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	17	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	Patriot KING 450	1	33° 49' 17.6" N	84° 12' 10.6" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	16	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	Patriot KING 450	1	33° 49' 18.0" N	84° 12' 10.3" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	19	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	Patriot KING 450	1	33° 49' 18.0" N	84° 12' 10.6" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	20	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	Patriot KING 450	1	33° 49' 18.5" N	84° 12' 10.2" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	21	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	Patriot KING 450	1	33° 49' 18.5" N	84° 12' 10.4" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	24	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	Patriot KING 450	1	33° 49' 18.5" N	84° 12' 10.1" W	3700	4200	4/8/33		
E181984	SES-REG-20180809-03391	Comcast Cable Communications Management, LLC	GA	25	4545 Stonegate Industrial Blvd. Stone Mountain, DeKalb, GA, 30083	authorized	4.5	Patriot KING 450	1	33° 49' 18.6" N	84° 12' 10.8" W	3700	4200	4/8/33		
E181990	SES-REG-20180809-03397	Comcast Cable Communications Management, LLC	CO	1	3666 County Rd Battlement Mesa, Garfield, CO, 81635	authorized	4.6	Scientific Atlanta	1	39° 25' 30.0" N	108° 2' 7.0" W	3700	4200	5/8/33		
E181990	SES-REG-20180809-03397	Comcast Cable Communications Management, LLC	CO	1	3666 County Rd Battlement Mesa, Garfield, CO, 81635	authorized	4	Patriot	3	39° 25' 30.0" N	108° 2' 7.0" W	3700	4200	5/8/33		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E182007	SES-REG-20180809-03414	Comcast Cable Communications Management, LLC	CA	1	6901 Roseville Road Sacramento, Sacramento, CA, 95842	authorized	3.7	Scientific Atlanta	7	38° 41' 33.5" N	121° 20' 44.4" W	3700	4200	8/8/33		
E182007	SES-REG-20180809-03414	Comcast Cable Communications Management, LLC	CA	1	6901 Roseville Road Sacramento, Sacramento, CA, 95842	authorized	4.5	Scientific Atlanta	4	38° 41' 33.5" N	121° 20' 44.4" W	3700	4200	8/8/33		
E182017	SES-REG-20180809-03451	Comcast Cable Communications Management, LLC	NM	1	1026 S. 2nd Street Raton, Colfax, NM, 87740	authorized	3	Patriot	1	36° 54' 31.0" N	104° 27' 59.0" W	3700	4200	8/8/33		
E182017	SES-REG-20180809-03451	Comcast Cable Communications Management, LLC	NM	1	1026 S. 2nd Street Raton, Colfax, NM, 87740	authorized	3.8	Patriot	3	36° 54' 31.0" N	104° 27' 59.0" W	3700	4200	8/8/33		
E182017	SES-REG-20180809-03451	Comcast Cable Communications Management, LLC	NM	1	1026 S. 2nd Street Raton, Colfax, NM, 87740	authorized	3.8	Prodelin	1	36° 54' 31.0" N	104° 27' 59.0" W	3700	4200	8/8/33		
E182035	SES-REG-20180809-03480	Comcast Cable Communications Management, LLC	NM	1	50 Antelope Trail Deming, Luna, NM, 88030	authorized	3.8	Patriot	1	32° 18' 15.6" N	107° 45' 8.3" W	3700	4200	5/8/33		
E182035	SES-REG-20180809-03480	Comcast Cable Communications Management, LLC	NM	1	50 Antelope Trail Deming, Luna, NM, 88030	authorized	3.8	Patriot	4	32° 18' 15.6" N	107° 45' 8.3" W	3700	4200	5/8/33		
E182035	SES-REG-20180809-03480	Comcast Cable Communications Management, LLC	NM	1	50 Antelope Trail Deming, Luna, NM, 88030	authorized	2.8	Scientific Atlanta 9091	2	32° 18' 15.6" N	107° 45' 8.3" W	3700	4200	5/8/33		
E182035	SES-REG-20180809-03480	Comcast Cable Communications Management, LLC	NM	1	50 Antelope Trail Deming, Luna, NM, 88030	authorized	3.8	Scientific Atlanta 8023	1	32° 18' 15.6" N	107° 45' 8.3" W	3700	4200	5/8/33		
E182037	SES-REG-20180809-03482	Comcast Cable Communications Management, LLC	GA	1	714 Railroad Street Warrenton, Warren, GA, 30828	authorized	3	Patriot	1	33° 24' 59.0" N	82° 39' 3.1" W	3700	4200	1/8/33		
E182037	SES-REG-20180809-03482	Comcast Cable Communications Management, LLC	GA	2	714 Railroad Street Warrenton, Warren, GA, 30828	authorized	4.2	Scientific Atlanta	1	33° 24' 59.1" N	82° 39' 3.1" W	3700	4200	1/8/33		
E182037	SES-REG-20180809-03482	Comcast Cable Communications Management, LLC	GA	3	714 Railroad Street Warrenton, Warren, GA, 30828	authorized	4.2	Scientific Atlanta	1	33° 24' 59.3" N	82° 39' 2.5" W	3700	4200	1/8/33		
E182037	SES-REG-20180809-03482	Comcast Cable Communications Management, LLC	GA	4	714 Railroad Street Warrenton, Warren, GA, 30828	authorized	4.2	Scientific Atlanta	1	33° 24' 59.4" N	82° 39' 3.3" W	3700	4200	1/8/33		
E182037	SES-REG-20180809-03482	Comcast Cable Communications Management, LLC	GA	5	714 Railroad Street Warrenton, Warren, GA, 30828	authorized	4.2	Scientific Atlanta	1	33° 24' 58.9" N	82° 39' 2.9" W	3700	4200	1/8/33		
E182037	SES-REG-20180809-03482	Comcast Cable Communications Management, LLC	GA	6	714 Railroad Street Warrenton, Warren, GA, 30828	authorized	3.6	Patriot	1	33° 25' 0.1" N	82° 39' 3.0" W	3700	4200	1/8/33		
E182037	SES-REG-20180809-03482	Comcast Cable Communications Management, LLC	GA	7	714 Railroad Street Warrenton, Warren, GA, 30828	authorized	3.6	Patriot	1	33° 24' 59.9" N	82° 39' 2.8" W	3700	4200	1/8/33		
E182040	SES-REG-20180809-03487	Comcast Cable Communications Management, LLC	UT	1	1251 Wilmington Avenue Salt Lake City, Salt Lake, UT, 84106	authorized	3.8	Patriot	3	40° 43' 25.0" N	111° 51' 18.5" W	3700	4200	8/8/33		
E182040	SES-REG-20180809-03487	Comcast Cable Communications Management, LLC	UT	1	1251 Wilmington Avenue Salt Lake City, Salt Lake, UT, 84106	authorized	4.5	Superior Satelite Eq	4	40° 43' 25.0" N	111° 51' 18.5" W	3700	4200	8/8/33		
E182041	SES-REG-20180827-03488	Comcast Cable Communications Management, LLC	WA	1	1717 E. Bukeye Ave. Spokane, Spokane, WA, 99207	authorized	4.5	Scientific Atlanta	3	47° 40' 58.0" N	117° 22' 59.0" W	3700	4200	10/8/33		
E182041	SES-REG-20180827-03488	Comcast Cable Communications Management, LLC	WA	1	1717 E. Bukeye Ave. Spokane, Spokane, WA, 99207	authorized	4.6	Scientific Atlanta	1	47° 40' 58.0" N	117° 22' 59.0" W	3700	4200	10/8/33		
E182042	SES-REG-20180827-03489	Comcast Cable Communications Management, LLC	WA	1	200 SW 114th Street Seattle King, WA, 98146	authorized	4.5	Scientific Atlanta	10	47° 30' 5.9" N	122° 20' 12.9" W	3700	4200	10/8/33		
E182046	SES-REG-20180809-03493	Comcast Cable Communications Management, LLC	NM	1	2530 Hot Springs Blvd. Las Vegas, San Miguel, NM, 87701	authorized	2.8	Scientific Atlanta	1	35° 35' 57.6" N	105° 14' 1.9" W	3700	4200	8/8/33		
E182046	SES-REG-20180809-03493	Comcast Cable Communications Management, LLC	NM	1	2530 Hot Springs Blvd. Las Vegas, San Miguel, NM, 87701	authorized	3.5	Patriot	1	35° 35' 57.6" N	105° 14' 1.9" W	3700	4200	8/8/33		
E182046	SES-REG-20180809-03493	Comcast Cable Communications Management, LLC	NM	1	2530 Hot Springs Blvd. Las Vegas, San Miguel, NM, 87701	authorized	4	Comtech	1	35° 35' 57.6" N	105° 14' 1.9" W	3700	4200	8/8/33		
E182046	SES-REG-20180809-03493	Comcast Cable Communications Management, LLC	NM	1	2530 Hot Springs Blvd. Las Vegas, San Miguel, NM, 87701	authorized	4.6	Scientific Atlanta	1	35° 35' 57.6" N	105° 14' 1.9" W	3700	4200	8/8/33		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E182046	SES-REG-20180809-03493	Comcast Cable Communications Management, LLC	NM	1	2530 Hot Springs Blvd. Las Vegas, San Miguel, NM, 87701	authorized	5	Micro Dyne	1	35° 35' 57.6" N	105° 14' 1.9" W	3700	4200	8/8/33		
E190042	SES-REG-20180809-02683	Comcast Cable Communications Management, LLC	GA	1	218 Dawkins Street Lincolnton, Lincoln, GA,3081	authorized	3.1	Scientific Atlanta	1	33° 48' 14.2" N	82° 28' 27.3" W	3700	4200	4/8/33		
E190042	SES-REG-20180809-02683	Comcast Cable Communications Management, LLC	GA	2	218 Dawkins Street Lincolnton, Lincoln, GA,3081	authorized	3.8	Challenger	1	33° 48' 14.4" N	82° 28' 27.7" W	3700	4200	4/8/33		
E190042	SES-REG-20180809-02683	Comcast Cable Communications Management, LLC	GA	3	218 Dawkins Street Lincolnton, Lincoln, GA, 3081	authorized	3.6	Patriot	1	33° 48' 14.5" N	82° 28' 27.1" W	3700	4200	4/8/33		
E190042	SES-REG-20180809-02683	Comcast Cable Communications Management, LLC	GA	4	218 Dawkins Street Lincolnton, Lincoln, GA,3081	authorized	3.6	Scientific Atlanta	1	33° 48' 14.5" N	82° 28' 27.2" W	3700	4200	4/8/33		
E190042	SES-REG-20180809-02683	Comcast Cable Communications Management, LLC	GA	5	218 Dawkins Street Lincolnton, Lincoln, GA,3081	authorized	3.1	Scientific Atlanta	1	33° 48' 14.3" N	82° 28' 27.0" W	3700	4200	4/8/33		
E190147	SES-REG-20180809-03827	Comcast Cable Communications Management, LLC	CA	1	2096 N. Gateway Blvd. Fresno, Fresno, CA, 93727	authorized	3.7	Scientific Atlanta	1	36° 46' 8.0" N	119° 43' 25.0" W	3700	4200	5/8/33		
E190149	SES-REG-20180809-03829	Comcast Cable Communications Management, LLC	NM	1	216 N 2nd St. Grants, Cibola NM, 87020	authorized	3.5	Prodelin	1	35° 9' 8.0" N	107° 50' 54.0" W	3700	4200	5/8/33		
E190149	SES-REG-20180809-03829	Comcast Cable Communications Management, LLC	NM	1	216 N 2nd St. Grants, Cibola NM, 87020	authorized	3.8	Prodelin	4	35° 9' 8.0" N	107° 50' 54.0" W	3700	4200	5/8/33		
E190149	SES-REG-20180809-03829	Comcast Cable Communications Management, LLC	NM	1	216 N 2nd St. Grants, Cibola NM, 87020	authorized	3.8	Patriot	1	35° 9' 8.0" N	107° 50' 54.0" W	3700	4200	5/8/33		
E190149	SES-REG-20180809-03829	Comcast Cable Communications Management, LLC	NM	1	216 N 2nd St. Grants, Cibola NM, 87020	authorized	3.8	Patriot	1	35° 9' 8.0" N	107° 50' 54.0" W	3700	4200	5/8/33		
E190149	SES-REG-20180809-03829	Comcast Cable Communications Management, LLC	NM	1	216 N 2nd St. Grants, Cibola NM, 87020	authorized	4.6	Comtech	1	35° 9' 8.0" N	107° 50' 54.0" W	3700	4200	5/8/33		
E190154	SES-REG-20180809-03834	Comcast Cable Communications Management, LLC	CO	1	720 Tyler Ave. Kremling, Grand, CO, 80459	authorized	4	Patriot	2	40° 3' 11.0" N	106° 23' 17.0" W	3700	4200	5/8/33		
E190154	SES-REG-20180809-03834	Comcast Cable Communications Management, LLC	CO	1	720 Tyler Ave. Kremling, Grand, CO, 80459	authorized	4.6	Comtech	4	40° 3' 11.0" N	106° 23' 17.0" W	3700	4200	5/8/33		
E190310	SES-REG-20180827-04004	Comcast Cable Communications Management, LLC	AZ	1	8251 N Cortaro Rd Tucson, Pima, AZ, 85743	authorized	3.8	Patriot	1	32° 21' 26.6" N	111° 5' 38.0" W	3700	4200	10/8/33		
E190311	SES-REG-20180827-04005	Comcast Cable Communications Management, LLC	NM	1	1808 S. 1st St. Tucumcari, Logan, NM, 88401	authorized	4	Comtech	2	35° 9' 41.0" N	103° 43' 27.0" W	3700	4200	10/8/33		
E190311	SES-REG-20180827-04005	Comcast Cable Communications Management, LLC	NM	1	1808 S. 1st St. Tucumcari, Logan, NM, 88401	authorized	4	Andrews	1	35° 9' 41.0" N	103° 43' 27.0" W	3700	4200	10/8/33		
E190311	SES-REG-20180827-04005	Comcast Cable Communications Management, LLC	NM	1	1808 S. 1st St. Tucumcari, Logan, NM, 88401	authorized	4	Casigrain	1	35° 9' 41.0" N	103° 43' 27.0" W	3700	4200	10/8/33		
E190311	SES-REG-20180827-04005	Comcast Cable Communications Management, LLC	NM	1	1808 S. 1st St. Tucumcari, Logan, NM, 88401	authorized	4	Patriot	1	35° 9' 41.0" N	103° 43' 27.0" W	3700	4200	10/8/33		
E190344	SES-REG-20180827-04038	Comcast Cable Communications Management, LLC	CO	1	444 N. Commercial Street Trinidad, Las Animas, CO,81082	authorized	5	Andrews	3	37° 10' 19.1" N	104° 30' 26.9" W	3700	4200	10/8/33		
E190344	SES-REG-20180827-04038	Comcast Cable Communications Management, LLC	CO	1	444 N. Commercial Street Trinidad, Las Animas, CO,81082	authorized	4	Patriot	2	37° 10' 19.1" N	104° 30' 26.9" W	3700	4200	10/8/33		
E190840	SES-REG-20180921-04498	Comcast Cable Communications Management, LLC	FL	1	7475 Jefferson Road Riverdale, St Johns, FL, 32092	authorized	3.2	Scientific Atlanta	2	29° 50' 0.8" N	81° 32' 19.6" W	3700	4200	09/20/2033		
E190843	SES-REG-20180921-04501	Comcast Cable Communications Management, LLC	IN	1	5330 E. 65th Street Indianapolis, Marion, IN,46204	authorized	4.5	Scientific Atlanta	10	39° 52' 38.0" N	86° 4' 44.0" W	3700	4200	09/20/2033		
E190871	SES-REG-20180921-04518	Comcast Cable Communications Management, LLC	GA	1	1424 Monte Sano Avenue Augusta, Richmon, GA,31634	authorized	3.6	Comtech	1	33° 28' 17.3" N	82° 1' 38.3" W	3700	4200	09/21/2033		
E190871	SES-REG-20180921-04518	Comcast Cable Communications Management, LLC	GA	2	1424 Monte Sano Avenue Augusta, Richmon, GA,30904	authorized	4.6	Scientific Atlanta Inc	1	33° 28' 17.4" N	82° 1' 38.8" W	3700	4200	09/21/2033		
E190871	SES-REG-20180921-04518	Comcast Cable Communications Management, LLC	GA	3	1424 Monte Sano Avenue Augusta, Richmon, GA,30904	authorized	4.6	Scientific Atlanta	1	33° 28' 17.5" N	82° 1' 39.0" W	3700	4200	09/21/2033		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E190871	SES-REG-20180921-04518	Comcast Cable Communications Management, LLC	GA	4	1424 Monte Sano Avenue Augusta, Richmond, GA,30904	authorized	4.6	Scientific Atlanta	1	33° 28' 17.5" N	82° 1' 39.3" W	3700	4200	09/21/2033		
E190871	SES-REG-20180921-04518	Comcast Cable Communications Management, LLC	GA	5	1424 Monte Sano Avenue Augusta, Richmond, GA,30904	authorized	3	Scientific Atlanta	1	33° 28' 17.5" N	82° 1' 39.5" W	3700	4200	09/21/2033		
E190871	SES-REG-20180921-04518	Comcast Cable Communications Management, LLC	GA	6	1424 Monte Sano Avenue Augusta, Richmond, GA,30904	authorized	3.6	Comtech	1	33° 28' 17.9" N	82° 1' 38.2" W	3700	4200	09/21/2033		
E190871	SES-REG-20180921-04518	Comcast Cable Communications Management, LLC	GA	7	1424 Monte Sano Avenue Augusta, Richmond, GA,30904	authorized	4.6	Scientific Atlanta	1	33° 28' 17.3" N	82° 1' 39.4" W	3700	4200	09/21/2033		
E190871	SES-REG-20180921-04518	Comcast Cable Communications Management, LLC	GA	8	1424 Monte Sano Avenue Augusta, Richmond, GA,30904	authorized	3.2	Patriot	1	33° 28' 18.0" N	82° 1' 38.4" W	3700	4200	09/21/2033		
E2734	SES-MOD-20180628-01946	Comcast of Colorado/Florida/Michigan/New Mexico/Pennsylvania/Washington, LLC	FL	1	940 12TH STREET VERO BEACH, INDIANRIVER, FL, 32960	authorized	7	Scientific Atlanta	3	27° 37' 31.2" N	80° 23' 33.8" W	3700	4200	11/2/26		
E2734	SES-MOD-20180628-01946	Comcast of Colorado/Florida/Michigan/New Mexico/Pennsylvania/Washington, LLC	FL	1	940 12TH STREET VERO BEACH, INDIANRIVER, FL, 32960	authorized	4.5	Scientific Atlanta	1	27° 37' 31.2" N	80° 23' 33.8" W	3700	4200	11/2/26		
E3696	SES-MOD-20180628-01620	Comcast of Florida/Georgia/Illinois/Michigan, LLC	GA	1	00 N. OKEFENOKEE FOLKSTON, CHARLTON,GA, 31537	authorized	5	Micro Dyne	1	30° 50' 12.5" N	82° 0' 42.2" W	3700	4200	11/13/2026		
E3696	SES-MOD-20180628-01620	Comcast of Florida/Georgia/Illinois/Michigan, LLC	GA	1	00 N. OKEFENOKEE FOLKSTON, CHARLTON,GA, 31537	authorized	5	AFC	2	30° 50' 12.5" N	82° 0' 42.2" W	3700	4200	11/13/2026		
E3696	SES-MOD-20180628-01620	Comcast of Florida/Georgia/Illinois/Michigan, LLC	GA	1	00 N. OKEFENOKEE FOLKSTON, CHARLTON,GA, 31537	authorized	3.7	Prodelin	2	30° 50' 12.5" N	82° 0' 42.2" W	3700	4200	11/13/2026		
E3696	SES-MOD-20180628-01620	Comcast of Florida/Georgia/Illinois/Michigan, LLC	GA	1	00 N. OKEFENOKEE FOLKSTON, CHARLTON,GA, 31537	authorized	4.6	Scientific Atlanta	1	30° 50' 12.5" N	82° 0' 42.2" W	3700	4200	11/13/2026		
E3708	SES-MOD-20180628-01729	Comcast of Carolina Inc	SC	1	4125 SPRUILL AVE. NORTH CHARLESTON,CHARLESTON, SC, 29405	authorized	5	Scientific Atlanta	1	32° 52' 12.8" N	79° 58' 50.1" W	3700	4200	11/30/2026		
E3708	SES-MOD-20180628-01729	Comcast of Carolina Inc	SC	1	4125 SPRUILL AVE. NORTH CHARLESTON,CHARLESTON, SC, 29405	authorized	3.8	Patriot	1	32° 52' 12.8" N	79° 58' 50.1" W	3700	4200	11/30/2026		
E3708	SES-MOD-20180628-01729	Comcast of Carolina Inc	SC	1	4125 SPRUILL AVE. NORTH CHARLESTON,CHARLESTON, SC, 29405	authorized	4.5	Scientific Atlanta	7	32° 52' 12.8" N	79° 58' 50.1" W	3700	4200	11/30/2026		
E3708	SES-MOD-20180628-01729	Comcast of Carolina Inc	SC	1	4125 SPRUILL AVE. NORTH CHARLESTON,CHARLESTON, SC, 29405	authorized	5	DH	1	32° 52' 12.8" N	79° 58' 50.1" W	3700	4200	11/30/2026		
E181227	SES-REG-20180703-01982	Charter Communications Operating LLC	CO	1	12101 Airport Way Broomfield, Broomfield, CO,80021	authorized	5	SIMULSAT 5M	1	39° 54' 54.2" N	105° 6' 31.3" W	3700	4200	3/7/33		Permitted Space Station List
E181227	SES-REG-20180703-01982	Charter Communications Operating LLC	CO	1	12101 Airport Way Broomfield, Broomfield, CO,80021	authorized	1.8	TX-INT180KU	1	39° 54' 54.2" N	105° 6' 31.3" W	3700	4200	3/7/33		
E181227	SES-REG-20180703-01982	Charter Communications Operating LLC	CO	1	12101 Airport Way Broomfield, Broomfield, CO,80021	authorized	45	PRTKING450	6	39° 54' 54.2" N	105° 6' 31.3" W	3700	4200	3/7/33		
E181227	SES-REG-20180703-01982	Charter Communications Operating LLC	CO	1	12101 Airport Way Broomfield, Broomfield, CO,80021	authorized	5	8008B	1	39° 54' 54.2" N	105° 6' 31.3" W	3700	4200	3/7/33		
E181227	SES-REG-20180703-01982	Charter Communications Operating LLC	CO	1	12101 Airport Way Broomfield, Broomfield, CO,80021	authorized	4.6	1699.3	2	39° 54' 54.2" N	105° 6' 31.3" W	3700	4200	3/7/33		
E181227	SES-REG-20180703-01982	Charter Communications Operating LLC	CO	1	12101 Airport Way Broomfield, Broomfield, CO,80021	authorized	4.5	1699.3	3	39° 54' 54.2" N	105° 6' 31.3" W	3700	4200	3/7/33		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E181227	SES-REG-20180703-01982	Charter Communications Operating LLC	CO	1	12101 Airport Way Broomfield, Broomfield, CO,80021	authorized	3.8	934D0015-G5	1	39° 54' 54.2" N	105° 6' 31.3" W	3700	4200	3/7/33		
E181227	SES-REG-20180703-01982	Charter Communications Operating LLC	CO	1	12101 Airport Way Broomfield, Broomfield, CO,80021	authorized	3.7	1374	1	39° 54' 54.2" N	105° 6' 31.3" W	3700	4200	3/7/33		
E181228	SES-REG-20180703-01983	Charter Communications Operating LLC	CO	1	11011 E Peakview Ave Centennial, Arapahoe, CO,80111	authorized	5	Simulsat 5M	2	39° 35' 57.9" N	104° 51' 37.6" W	3700	4200	3/7/33		
E181228	SES-REG-20180703-01983	Charter Communications Operating LLC	CO	1	11011 E Peakview Ave Centennial, Arapahoe, CO,80111	authorized	1.8	TXINT180KU	1	39° 35' 57.9" N	104° 51' 37.6" W	3700	4200	3/7/33		
E181228	SES-REG-20180703-01983	Charter Communications Operating LLC	CO	1	11011 E Peakview Ave Centennial, Arapahoe, CO,80111	authorized	5	8008B	1	39° 35' 57.9" N	104° 51' 37.6" W	3700	4200	3/7/33		
E181228	SES-REG-20180703-01983	Charter Communications Operating LLC	CO	1	11011 E Peakview Ave Centennial, Arapahoe, CO,80111	authorized	4.6	ESA46	1	39° 35' 57.9" N	104° 51' 37.6" W	3700	4200	3/7/33		
E181228	SES-REG-20180703-01983	Charter Communications Operating LLC	CO	1	11011 E Peakview Ave Centennial, Arapahoe, CO,80111	authorized	4.6	8346	1	39° 35' 57.9" N	104° 51' 37.6" W	3700	4200	3/7/33		
E181228	SES-REG-20180703-01983	Charter Communications Operating LLC	CO	1	11011 E Peakview Ave Centennial, Arapahoe, CO,80111	authorized	4.5	ESA45	1	39° 35' 57.9" N	104° 51' 37.6" W	3700	4200	3/7/33		
E181228	SES-REG-20180703-01983	Charter Communications Operating LLC	CO	1	11011 E Peakview Ave Centennial, Arapahoe, CO,80111	authorized	4.5	4.5M	1	39° 35' 57.9" N	104° 51' 37.6" W	3700	4200	3/7/33		
E181228	SES-REG-20180703-01983	Charter Communications Operating LLC	CO	1	11011 E Peakview Ave Centennial, Arapahoe, CO,80111	authorized	4.5	8345	1	39° 35' 57.9" N	104° 51' 37.6" W	3700	4200	3/7/33		
E181228	SES-REG-20180703-01983	Charter Communications Operating LLC	CO	1	11011 E Peakview Ave Centennial, Arapahoe, CO,80111	authorized	3.8	934D0015-G5	1	39° 35' 57.9" N	104° 51' 37.6" W	3700	4200	3/7/33		
E181228	SES-REG-20180703-01983	Charter Communications Operating LLC	CO	1	11011 E Peakview Ave Centennial, Arapahoe, CO,80111	authorized	3.7	1374	1	39° 35' 57.9" N	104° 51' 37.6" W	3700	4200	3/7/33		
E990507	SES-RWL-20091001-01268	Spectrum NLP, LLC	CT	1	125 RIDGE ROAD NEW MILFORD,LITCHFIELD, CT, 06776	authorized	4.5	DUAL 8345	1	41° 35' 42.5" N	73° 22' 25.1" W	3700	4200	8/11/24		
E180774	SES-REG-20180608-01375	Spectrum NLP, LLC	FL	1	7000 114th Ave N Largo, Pinellas, FL, 33773	authorized	5	SIMULSAT 5M	1	27° 52' 30.2" N	82° 44' 8.0" W	3700	4200	8/6/33		
E180774	SES-REG-20180608-01375	Spectrum NLP, LLC	FL	1	7000 114th Ave N Largo, Pinellas, FL, 33773	authorized	1.8	TX-INT180KU	1	27° 52' 30.2" N	82° 44' 8.0" W	3700	4200	8/6/33		
E180774	SES-REG-20180608-01375	Spectrum NLP, LLC	FL	1	7000 114th Ave N Largo, Pinellas, FL, 33773	authorized	5	8008B	1	27° 52' 30.2" N	82° 44' 8.0" W	3700	4200	8/6/33		
E180774	SES-REG-20180608-01375	Spectrum NLP, LLC	FL	1	7000 114th Ave N Largo, Pinellas, FL, 33773	authorized	4.6	ESA46	1	27° 52' 30.2" N	82° 44' 8.0" W	3700	4200	8/6/33		
E180774	SES-REG-20180608-01375	Spectrum NLP, LLC	FL	1	7000 114th Ave N Largo, Pinellas, FL, 33773	authorized	4.6	8346	1	27° 52' 30.2" N	82° 44' 8.0" W	3700	4200	8/6/33		
E180774	SES-REG-20180608-01375	Spectrum NLP, LLC	FL	1	7000 114th Ave N Largo, Pinellas, FL, 33773	authorized	4.5	ESA45	1	27° 52' 30.2" N	82° 44' 8.0" W	3700	4200	8/6/33		
E180774	SES-REG-20180608-01375	Spectrum NLP, LLC	FL	1	7000 114th Ave N Largo, Pinellas, FL, 33773	authorized	4.5	4.5M	1	27° 52' 30.2" N	82° 44' 8.0" W	3700	4200	8/6/33		
E180774	SES-REG-20180608-01375	Spectrum NLP, LLC	FL	1	7000 114th Ave N Largo, Pinellas, FL, 33773	authorized	4.5	8345	1	27° 52' 30.2" N	82° 44' 8.0" W	3700	4200	8/6/33		
E180774	SES-REG-20180608-01375	Spectrum NLP, LLC	FL	1	7000 114th Ave N Largo, Pinellas, FL, 33773	authorized	3.8	934D0015-G5	1	27° 52' 30.2" N	82° 44' 8.0" W	3700	4200	8/6/33		
E180774	SES-REG-20180608-01375	Spectrum NLP, LLC	FL	1	7000 114th Ave N Largo, Pinellas, FL, 33773	authorized	3.7	1374	1	27° 52' 30.2" N	82° 44' 8.0" W	3700	4200	8/6/33		
E990509	SES-RWL-20091001-01270	Spectrum Northeast, LLC	MA	1	199 SOUTHBRIDGE ST.OXFORD, WORCESTER,MA, 01537	authorized	4.5	DUAL 8345	1	42° 10' 28.5" N	71° 52' 59.8" W	3700	4200	8/11/24		
E181098	SES-REG-20180625-01830	Spectrum NLP, LLC	MO	1	6555 Winchester Ave Kansas City, Jackson, MO,64133	authorized	5	SIMULSAT 5M	1	39° 0' 22.8" N	94° 30' 27.3" W	3700	4200	06/25/2033		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E181098	SES-REG-20180625-01830	Spectrum NLP, LLC	MO	1	6555 Winchester Ave Kansas City, Jackson, MO,64133	authorized	1.8	TX-INT180KU	1	39° 0' 22.8" N	94° 30' 27.3" W	3700	4200	06/25/2033		
E181098	SES-REG-20180625-01830	Spectrum NLP, LLC	MO	1	6555 Winchester Ave Kansas City, Jackson, MO,64133	authorized	5	8008B	1	39° 0' 22.8" N	94° 30' 27.3" W	3700	4200	06/25/2033		
E181098	SES-REG-20180625-01830	Spectrum NLP, LLC	MO	1	6555 Winchester Ave Kansas City, Jackson, MO,64133	authorized	4.6	ESA46	1	39° 0' 22.8" N	94° 30' 27.3" W	3700	4200	06/25/2033		
E181098	SES-REG-20180625-01830	Spectrum NLP, LLC	MO	1	6555 Winchester Ave Kansas City, Jackson, MO,64133	authorized	4.6	8346	1	39° 0' 22.8" N	94° 30' 27.3" W	3700	4200	06/25/2033		
E181098	SES-REG-20180625-01830	Spectrum NLP, LLC	MO	1	6555 Winchester Ave Kansas City, Jackson, MO,64133	authorized	4.5	ESA45	1	39° 0' 22.8" N	94° 30' 27.3" W	3700	4200	06/25/2033		
E181098	SES-REG-20180625-01830	Spectrum NLP, LLC	MO	1	6555 Winchester Ave Kansas City, Jackson, MO,64133	authorized	4.5	4.5M	1	39° 0' 22.8" N	94° 30' 27.3" W	3700	4200	06/25/2033		
E181098	SES-REG-20180625-01830	Spectrum NLP, LLC	MO	1	6555 Winchester Ave Kansas City, Jackson, MO,64133	authorized	4.5	8345	1	39° 0' 22.8" N	94° 30' 27.3" W	3700	4200	06/25/2033		
E181098	SES-REG-20180625-01830	Spectrum NLP, LLC	MO	1	6555 Winchester Ave Kansas City, Jackson, MO,64133	authorized	3.8	934D0015-G5	1	39° 0' 22.8" N	94° 30' 27.3" W	3700	4200	06/25/2033		
E181098	SES-REG-20180625-01830	Spectrum NLP, LLC	MO	1	6555 Winchester Ave Kansas City, Jackson, MO,64133	authorized	3.7	1374	1	39° 0' 22.8" N	94° 30' 27.3" W	3700	4200	06/25/2033		
E181094	SES-REG-20180625-01826	Spectrum NLP, LLC	NC	1	316 E Morehead St Charlotte, Mecklenburg, NC,28202	authorized	5	SIMULSAT 5M	1	35° 13' 6.1" N	80° 51' 0.4" W	3700	4200	06/25/2033		
E181094	SES-REG-20180625-01826	Spectrum NLP, LLC	NC	1	316 E Morehead St Charlotte, Mecklenburg, NC,28202	authorized	1.8	TX-INT180KU	1	35° 13' 6.1" N	80° 51' 0.4" W	3700	4200	06/25/2033		
E181094	SES-REG-20180625-01826	Spectrum NLP, LLC	NC	1	316 E Morehead St Charlotte, Mecklenburg, NC,28202	authorized	5	8008B	1	35° 13' 6.1" N	80° 51' 0.4" W	3700	4200	06/25/2033		
E181094	SES-REG-20180625-01826	Spectrum NLP, LLC	NC	1	316 E Morehead St Charlotte, Mecklenburg, NC,28202	authorized	4.6	ESA46	1	35° 13' 6.1" N	80° 51' 0.4" W	3700	4200	06/25/2033		
E181094	SES-REG-20180625-01826	Spectrum NLP, LLC	NC	1	316 E Morehead St Charlotte, Mecklenburg, NC,28202	authorized	4.6	8346	1	35° 13' 6.1" N	80° 51' 0.4" W	3700	4200	06/25/2033		
E181094	SES-REG-20180625-01826	Spectrum NLP, LLC	NC	1	316 E Morehead St Charlotte, Mecklenburg, NC,28202	authorized	4.5	ESA45	1	35° 13' 6.1" N	80° 51' 0.4" W	3700	4200	06/25/2033		
E181094	SES-REG-20180625-01826	Spectrum NLP, LLC	NC	1	316 E Morehead St Charlotte, Mecklenburg, NC,28202	authorized	4.5	4.5M	1	35° 13' 6.1" N	80° 51' 0.4" W	3700	4200	06/25/2033		
E181094	SES-REG-20180625-01826	Spectrum NLP, LLC	NC	1	316 E Morehead St Charlotte, Mecklenburg, NC,28202	authorized	4.5	8345	1	35° 13' 6.1" N	80° 51' 0.4" W	3700	4200	06/25/2033		
E181094	SES-REG-20180625-01826	Spectrum NLP, LLC	NC	1	316 E Morehead St Charlotte, Mecklenburg, NC,28202	authorized	3.8	934D0015-G5	1	35° 13' 6.1" N	80° 51' 0.4" W	3700	4200	06/25/2033		
E181094	SES-REG-20180625-01826	Spectrum NLP, LLC	NC	1	316 E Morehead St Charlotte, Mecklenburg, NC,28202	authorized	3.7	1374	1	35° 13' 6.1" N	80° 51' 0.4" W	3700	4200	06/25/2033		
E181095	SES-REG-20180625-01827	Spectrum NLP, LLC	NC	1	2505 Atlantic Ave Raleigh, Wake, NC, 27604	authorized	5	SIMULSAT 5M	1	35° 48' 56.0" N	78° 37' 5.1" W	3700	4200	06/25/2033		
E181095	SES-REG-20180625-01827	Spectrum NLP, LLC	NC	1	2505 Atlantic Ave Raleigh, Wake, NC, 27604	authorized	1.8	TX-INT180KU	1	35° 48' 56.0" N	78° 37' 5.1" W	3700	4200	06/25/2033		
E181095	SES-REG-20180625-01827	Spectrum NLP, LLC	NC	1	2505 Atlantic Ave Raleigh, Wake, NC, 27604	authorized	5	8008B	1	35° 48' 56.0" N	78° 37' 5.1" W	3700	4200	06/25/2033		
E181095	SES-REG-20180625-01827	Spectrum NLP, LLC	NC	1	2505 Atlantic Ave Raleigh, Wake, NC, 27604	authorized	4.6	ESA46	1	35° 48' 56.0" N	78° 37' 5.1" W	3700	4200	06/25/2033		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E181095	SES-REG-20180625-01827	Spectrum NLP, LLC	NC	1	2505 Atlantic Ave Raleigh, Wake, NC, 27604	authorized	4.6	8346	1	35° 48' 56.0" N	78° 37' 5.1" W	3700	4200	06/25/2033		
E181095	SES-REG-20180625-01827	Spectrum NLP, LLC	NC	1	2505 Atlantic Ave Raleigh, Wake, NC, 27604	authorized	4.5	ESA45	1	35° 48' 56.0" N	78° 37' 5.1" W	3700	4200	06/25/2033		
E181095	SES-REG-20180625-01827	Spectrum NLP, LLC	NC	1	2505 Atlantic Ave Raleigh, Wake, NC, 27604	authorized	4.5	4.5M	1	35° 48' 56.0" N	78° 37' 5.1" W	3700	4200	06/25/2033		
E181095	SES-REG-20180625-01827	Spectrum NLP, LLC	NC	1	2505 Atlantic Ave Raleigh, Wake, NC, 27604	authorized	4.5	8345	1	35° 48' 56.0" N	78° 37' 5.1" W	3700	4200	06/25/2033		
E181095	SES-REG-20180625-01827	Spectrum NLP, LLC	NC	1	2505 Atlantic Ave Raleigh, Wake, NC, 27604	authorized	3.8	934D0015-G5	1	35° 48' 56.0" N	78° 37' 5.1" W	3700	4200	06/25/2033		
E181095	SES-REG-20180625-01827	Spectrum NLP, LLC	NC	1	2505 Atlantic Ave Raleigh, Wake, NC, 27604	authorized	3.7	1374	1	35° 48' 56.0" N	78° 37' 5.1" W	3700	4200	06/25/2033		
E980293	SES-RWL-20080613-00771	WRAZ-TV, INC.	NC	1	512 SOUTH MANGUMSTREET DURHAM, DURHAM, NC	authorized	4.5	ESA45-46A	1	35° 59' 31.0" N	78° 54' 9.0" W	3700	4200	06/25/2033		
E181097	SES-REG-20180625-01829	Spectrum NLP, LLC	NY	1	815 Erie Blvd E Syracuse, Onondaga, NY, 13210	authorized	5	SIMULSAT 5M	1	43° 3' 3.7" N	76° 8' 22.7" W	3700	4200	06/25/2033		
E181097	SES-REG-20180625-01829	Spectrum NLP, LLC	NY	1	815 Erie Blvd E Syracuse, Onondaga, NY, 13210	authorized	1.8	TX-INT180KU	1	43° 3' 3.7" N	76° 8' 22.7" W	3700	4200	06/25/2033		
E181097	SES-REG-20180625-01829	Spectrum NLP, LLC	NY	1	815 Erie Blvd E Syracuse, Onondaga, NY, 13210	authorized	5	8008B	1	43° 3' 3.7" N	76° 8' 22.7" W	3700	4200	06/25/2033		
E181097	SES-REG-20180625-01829	Spectrum NLP, LLC	NY	1	815 Erie Blvd E Syracuse, Onondaga, NY, 13210	authorized	4.6	ESA46	1	43° 3' 3.7" N	76° 8' 22.7" W	3700	4200	06/25/2033		
E181097	SES-REG-20180625-01829	Spectrum NLP, LLC	NY	1	815 Erie Blvd E Syracuse, Onondaga, NY, 13210	authorized	4.6	8346	1	43° 3' 3.7" N	76° 8' 22.7" W	3700	4200	06/25/2033		
E181097	SES-REG-20180625-01829	Spectrum NLP, LLC	NY	1	815 Erie Blvd E Syracuse, Onondaga, NY, 13210	authorized	4.5	ESA45	1	43° 3' 3.7" N	76° 8' 22.7" W	3700	4200	06/25/2033		
E181097	SES-REG-20180625-01829	Spectrum NLP, LLC	NY	1	815 Erie Blvd E Syracuse, Onondaga, NY, 13210	authorized	4.5	4.5M	1	43° 3' 3.7" N	76° 8' 22.7" W	3700	4200	06/25/2033		
E181097	SES-REG-20180625-01829	Spectrum NLP, LLC	NY	1	815 Erie Blvd E Syracuse, Onondaga, NY, 13210	authorized	3.8	934D0015-G5	1	43° 3' 3.7" N	76° 8' 22.7" W	3700	4200	06/25/2033		
E181097	SES-REG-20180625-01829	Spectrum NLP, LLC	NY	1	815 Erie Blvd E Syracuse, Onondaga, NY, 13210	authorized	3.7	1374	1	43° 3' 3.7" N	76° 8' 22.7" W	3700	4200	06/25/2033		
E181129	SES-REG-20180625-01857	Spectrum NLP, LLC	NY	1	104 Watervliet Ave Ext Albany, Albany, NY, 12206	authorized	5	SIMULSAT 5M	1	42° 40' 46.8" N	73° 46' 53.2" W	3700	4200	06/25/2033		
E181129	SES-REG-20180625-01857	Spectrum NLP, LLC	NY	1	104 Watervliet Ave Ext Albany, Albany, NY, 12206	authorized	1.8	TX-INT180KU	1	42° 40' 46.8" N	73° 46' 53.2" W	3700	4200	06/25/2033		
E181129	SES-REG-20180625-01857	Spectrum NLP, LLC	NY	1	104 Watervliet Ave Ext Albany, Albany, NY, 12206	authorized	5	8008B	1	42° 40' 46.8" N	73° 46' 53.2" W	3700	4200	06/25/2033		
E181129	SES-REG-20180625-01857	Spectrum NLP, LLC	NY	1	104 Watervliet Ave Ext Albany, Albany, NY, 12206	authorized	4.6	ESA46	1	42° 40' 46.8" N	73° 46' 53.2" W	3700	4200	06/25/2033		
E181129	SES-REG-20180625-01857	Spectrum NLP, LLC	NY	1	104 Watervliet Ave Ext Albany, Albany, NY, 12206	authorized	4.6	8346	1	42° 40' 46.8" N	73° 46' 53.2" W	3700	4200	06/25/2033		
E181129	SES-REG-20180625-01857	Spectrum NLP, LLC	NY	1	104 Watervliet Ave Ext Albany, Albany, NY, 12206	authorized	4.5	ESA45	1	42° 40' 46.8" N	73° 46' 53.2" W	3700	4200	06/25/2033		
E181129	SES-REG-20180625-01857	Spectrum NLP, LLC	NY	1	104 Watervliet Ave Ext Albany, Albany, NY, 12206	authorized	4.5	4.5M	1	42° 40' 46.8" N	73° 46' 53.2" W	3700	4200	06/25/2033		
E181129	SES-REG-20180625-01857	Spectrum NLP, LLC	NY	1	104 Watervliet Ave Ext Albany, Albany, NY, 12206	authorized	4.5	8345	1	42° 40' 46.8" N	73° 46' 53.2" W	3700	4200	06/25/2033		
E181129	SES-REG-20180625-01857	Spectrum NLP, LLC	NY	1	104 Watervliet Ave Ext Albany, Albany, NY, 12206	authorized	3.8	934D0015-G5	1	42° 40' 46.8" N	73° 46' 53.2" W	3700	4200	06/25/2033		
E181129	SES-REG-20180625-01857	Spectrum NLP, LLC	NY	1	104 Watervliet Ave Ext Albany, Albany, NY, 12206	authorized	3.7	1374	1	42° 40' 46.8" N	73° 46' 53.2" W	3700	4200	06/25/2033		
E180272	SES-REG-20180510-00639	Gray Television Licensee, LLC	WI	44	1907 S Hastings Way Eau Claire, WI, 54701	authorized	3.7	3.7M	3	44° 57' 58.8" N	91° 27' 57.8" W	3700	4200	10/5/33		
E180272	SES-REG-20180510-00639	Gray Television Licensee, LLC	WI	44	1907 S Hastings Way Eau Claire, WI, 54701	authorized	3.1	PRT-310	1	44° 57' 58.8" N	91° 27' 57.8" W	3700	4200	10/5/33		
E180272	SES-REG-20180510-00639	Gray Television Licensee, LLC	WI	44	1907 S Hastings Way Eau Claire, WI, 54701	authorized	5	5M	2	44° 57' 58.8" N	91° 27' 57.8" W	3700	4200	10/5/33		
E180737	SES-REG-20180608-01333	Spectrum NLP, LLC	TX	1	215 Factory Dr Waco, McLennan, TX, 76710	authorized	3.5	Unknown	1	31° 30' 59.9" N	97° 10' 32.5" W	3700	4200	8/6/23		
E181099	SES-REG-20180625-01831	Spectrum NLP, LLC	TX	1	12012 N Mopac Expy Austin, Travis, TX, 78759	authorized	5	SIMULSAT 5M	1	30° 24' 38.5" N	97° 42' 51.6" W	3700	4200	06/25/2033		
E181099	SES-REG-20180625-01831	Spectrum NLP, LLC	TX	1	12012 N Mopac Expy Austin, Travis, TX, 78759	authorized	1.8	TX-INT180KU	1	30° 24' 38.5" N	97° 42' 51.6" W	3700	4200	06/25/2033		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E181099	SES-REG-20180625-01831	Spectrum NLP, LLC	TX	1	12012 N Mopac Expy Austin, Travis, TX, 78759	authorized	5	8008B	1	30° 24' 38.5" N	97° 42' 51.6" W	3700	4200	06/25/2033		
E181099	SES-REG-20180625-01831	Spectrum NLP, LLC	TX	1	12012 N Mopac Expy Austin, Travis, TX, 78759	authorized	4.6	ESA46	1	30° 24' 38.5" N	97° 42' 51.6" W	3700	4200	06/25/2033		
E181099	SES-REG-20180625-01831	Spectrum NLP, LLC	TX	1	12012 N Mopac Expy Austin, Travis, TX, 78759	authorized	4.6	8346	1	30° 24' 38.5" N	97° 42' 51.6" W	3700	4200	06/25/2033		
E181099	SES-REG-20180625-01831	Spectrum NLP, LLC	TX	1	12012 N Mopac Expy Austin, Travis, TX, 78759	authorized	4.5	ESA45	1	30° 24' 38.5" N	97° 42' 51.6" W	3700	4200	06/25/2033		
E181099	SES-REG-20180625-01831	Spectrum NLP, LLC	TX	1	12012 N Mopac Expy Austin, Travis, TX, 78759	authorized	4.5	4.5M	1	30° 24' 38.5" N	97° 42' 51.6" W	3700	4200	06/25/2033		
E181099	SES-REG-20180625-01831	Spectrum NLP, LLC	TX	1	12012 N Mopac Expy Austin, Travis, TX, 78759	authorized	4.5	8345	1	30° 24' 38.5" N	97° 42' 51.6" W	3700	4200	06/25/2033		
E181099	SES-REG-20180625-01831	Spectrum NLP, LLC	TX	1	12012 N Mopac Expy Austin, Travis, TX, 78759	authorized	3.8	934D0015-G5	1	30° 24' 38.5" N	97° 42' 51.6" W	3700	4200	06/25/2033		
E181099	SES-REG-20180625-01831	Spectrum NLP, LLC	TX	1	12012 N Mopac Expy Austin, Travis, TX, 78759	authorized	3.7	1374	1	30° 24' 38.5" N	97° 42' 51.6" W	3700	4200	06/25/2033		
E181100	SES-REG-20180625-01832	Spectrum NLP, LLC	TX	1	403 Urban Loop San Antonio, Bexar, TX, 78207	authorized	5	SIMULSAT 5M	1	29° 25' 20.6" N	98° 30' 1.0" W	3700	4200	06/25/2033		
E181100	SES-REG-20180625-01832	Spectrum NLP, LLC	TX	1	403 Urban Loop San Antonio, Bexar, TX, 78207	authorized	1.8	TX-INT180KU	1	29° 25' 20.6" N	98° 30' 1.0" W	3700	4200	06/25/2033		
E181100	SES-REG-20180625-01832	Spectrum NLP, LLC	TX	1	403 Urban Loop San Antonio, Bexar, TX, 78207	authorized	5	8008B	1	29° 25' 20.6" N	98° 30' 1.0" W	3700	4200	06/25/2033		
E181100	SES-REG-20180625-01832	Spectrum NLP, LLC	TX	1	403 Urban Loop San Antonio, Bexar, TX, 78207	authorized	4.6	ESA46	1	29° 25' 20.6" N	98° 30' 1.0" W	3700	4200	06/25/2033		
E181100	SES-REG-20180625-01832	Spectrum NLP, LLC	TX	1	403 Urban Loop San Antonio, Bexar, TX, 78207	authorized	4.6	8346	1	29° 25' 20.6" N	98° 30' 1.0" W	3700	4200	06/25/2033		
E181100	SES-REG-20180625-01832	Spectrum NLP, LLC	TX	1	403 Urban Loop San Antonio, Bexar, TX, 78207	authorized	4.5	ESA45	1	29° 25' 20.6" N	98° 30' 1.0" W	3700	4200	06/25/2033		
E181100	SES-REG-20180625-01832	Spectrum NLP, LLC	TX	1	403 Urban Loop San Antonio, Bexar, TX, 78207	authorized	4.5	4.5M	1	29° 25' 20.6" N	98° 30' 1.0" W	3700	4200	06/25/2033		
E181100	SES-REG-20180625-01832	Spectrum NLP, LLC	TX	1	403 Urban Loop San Antonio, Bexar, TX, 78207	authorized	4.5	8345	1	29° 25' 20.6" N	98° 30' 1.0" W	3700	4200	06/25/2033		
E181100	SES-REG-20180625-01832	Spectrum NLP, LLC	TX	1	403 Urban Loop San Antonio, Bexar, TX, 78207	authorized	3.8	934D0015-G5	1	29° 25' 20.6" N	98° 30' 1.0" W	3700	4200	06/25/2033		
E181100	SES-REG-20180625-01832	Spectrum NLP, LLC	TX	1	403 Urban Loop San Antonio, Bexar, TX, 78207	authorized	3.7	1374	1	29° 25' 20.6" N	98° 30' 1.0" W	3700	4200	06/25/2033		
E181159	SES-REG-20180625-01893	Spectrum NLP, LLC	TX	Austin Colorado St	1708 Colorado St Austin, Travis, TX, 7870	authorized	5	SIMULSAT 5M	1	30° 16' 45.9" N	97° 44' 25.4" W	3700	4200	06/25/2033		
E181159	SES-REG-20180625-01893	Spectrum NLP, LLC	TX	Austin Colorado St	1708 Colorado St Austin, Travis, TX, 7870	authorized	1.8	TX-INT180KU	1	30° 16' 45.9" N	97° 44' 25.4" W	3700	4200	06/25/2033		
E181159	SES-REG-20180625-01893	Spectrum NLP, LLC	TX	Austin Colorado St	1708 Colorado St Austin, Travis, TX, 7870	authorized	5	8008B	1	30° 16' 45.9" N	97° 44' 25.4" W	3700	4200	06/25/2033		
E181159	SES-REG-20180625-01893	Spectrum NLP, LLC	TX	Austin Colorado St	1708 Colorado St Austin, Travis, TX, 7870	authorized	4.6	ESA46	1	30° 16' 45.9" N	97° 44' 25.4" W	3700	4200	06/25/2033		
E181159	SES-REG-20180625-01893	Spectrum NLP, LLC	TX	Austin Colorado St	1708 Colorado St Austin, Travis, TX, 7870	authorized	4.6	8346	1	30° 16' 45.9" N	97° 44' 25.4" W	3700	4200	06/25/2033		
E181159	SES-REG-20180625-01893	Spectrum NLP, LLC	TX	Austin Colorado St	1708 Colorado St Austin, Travis, TX, 7870	authorized	4.5	ESA45	1	30° 16' 45.9" N	97° 44' 25.4" W	3700	4200	06/25/2033		
E181159	SES-REG-20180625-01893	Spectrum NLP, LLC	TX	Austin Colorado St	1708 Colorado St Austin, Travis, TX, 7870	authorized	4.5	4.5M	1	30° 16' 45.9" N	97° 44' 25.4" W	3700	4200	06/25/2033		
E181159	SES-REG-20180625-01893	Spectrum NLP, LLC	TX	Austin Colorado St	1708 Colorado St Austin, Travis, TX, 7870	authorized	4.5	8345	1	30° 16' 45.9" N	97° 44' 25.4" W	3700	4200	06/25/2033		
E181159	SES-REG-20180625-01893	Spectrum NLP, LLC	TX	Austin Colorado St	1708 Colorado St Austin, Travis, TX, 7870	authorized	3.8	934D0015-G5	1	30° 16' 45.9" N	97° 44' 25.4" W	3700	4200	06/25/2033		
E181159	SES-REG-20180625-01893	Spectrum NLP, LLC	TX	Austin Colorado St	1708 Colorado St Austin, Travis, TX, 7870	authorized	3.7	1374	1	30° 16' 45.9" N	97° 44' 25.4" W	3700	4200	06/25/2033		
E980170	SES-RWL-20080317-00319	DIRECTV ENTERPRISES, LLC	CA	1	12800 CULVER BLVD. LOS ANGELES, LOSANGELES, CA	authorized	7	700-70TCK	1	33° 58' 58.0" N	118° 25' 26.0" W	3700	4200	9/3/23	Permitted Space Station List	E117WA
E980341	SES-RWL-20081223-01696	DIRECTV ENTERPRISES, LLC	CA	1	12800 CULVER BLVD.LOS ANGELES, LOSANGELES, CA, 90066	authorized	6.4	640CK	1	33° 58' 57.8" N	118° 25' 26.5" W	3700	4200	12/31/2023		

Earth Station Callsign	File Number	Applicant Name	State	Site ID	City / Address	status	dish size	Model	Quantity of antennas	Latitude	Longitude	Lower (MHz)	Upper (MHz)	Date Expire	Orbit Location	Estimated orbital position pointing
E040180	SES-RWL-20190208-00078	DIRECTV ENTERPRISES, LLC	MN	1	6287 32ND STREET N. (MWUF)OAKDALE, WASHINGTON,MN, 55128	authorized	7.3	ESA73-4A	1	44° 59' 35.0" N	92° 58' 42.0" W	3700	4200	04/13/2034		
E040179	SES-RWL-20190208-00077	DIRECTV ENTERPRISES, LLC	VA	1	260 SHADY ELM RD. (ECUF)WINCHESTER,FREDERICK, VA, 22602	authorized	4.5	ESA45-46A	2	39° 7' 52.5" N	78° 12' 6.0" W	3700	4200	04/13/2034		
E181287	SES-REG-20180709-02059	Frontier Communications Corporation, Debtor-in-Possession	IN	1	6430 Oakbrook Pkwy Fort Wayne, USA, IN, 46825	authorized	4.5	PATRIOT 4.5	1	41° 8' 19.9" N	85° 8' 18.8" W	3700	4200	9/7/33		E113WA
E181287	SES-REG-20180709-02059	Frontier Communications Corporation, Debtor-in-Possession	IN	1	6430 Oakbrook Pkwy Fort Wayne, USA, IN, 46825	authorized	5	5b	1	41° 8' 19.9" N	85° 8' 18.8" W	3700	4200	9/7/33		
E181287	SES-REG-20180709-02059	Frontier Communications Corporation, Debtor-in-Possession	IN	2	8001 W Jefferson Blvd Fort Wayne, USA, IN, 46804	authorized	4.5	PATRIOT 4.5	1	41° 2' 3.0" N	85° 14' 46.8" W	3700	4200	9/7/33		E113WA
E181287	SES-REG-20180709-02059	Frontier Communications Corporation, Debtor-in-Possession	IN	2	8001 W Jefferson Blvd Fort Wayne, USA, IN, 46804	authorized	5	5b	1	41° 2' 3.0" N	85° 14' 46.8" W	3700	4200	9/7/33		
E181221	SES-REG-20180717-01976	Frontier Media, LLC	TX	1	615 Olive Street (Main Studios)Texarkana, Bowie, TX, 75501	authorized	3.7	31848	3	33° 25' 34.0" N	94° 2' 41.0" W	3700	4200	06/24/2033		E117WA
E180771	SES-REG-20180608-01371	Avenue Broadband Communications, LLC d/b/a NewWave Communications	IL	1	11059 N 1670 East Road Westville, Vermilion, IL,61883	authorized	5	SIMULSAT 5M	1	40° 2' 4.1" N	87° 37' 0.5" W	3700	4200	8/6/33		
E180781	SES-REG-20180608-01382	Avenue Broadband Communications, LLC d/b/a NewWave Communications	IN	1	2812 Adams Meyer Lane Vincennes, Knox, IN, 47591	authorized	5	5.0M PRIME FOCUS	12	38° 41' 25.4" N	87° 29' 52.2" W	3700	4200	8/6/33		E113WA
E050055	SES-RWL-20200203-00100	Verizon Services Corp.	FL	1	1 EAST TELECOM TEMPLE TERRACE,HILLSBOROUGH, FL, 33637	authorized	4.5	4.5M	1	28° 3' 33.6" N	82° 22' 18.5" W	3700	4200	1/3/35		
E050055	SES-RWL-20200203-00100	Verizon Services Corp.	FL	1	1 EAST TELECOM TEMPLE TERRACE,HILLSBOROUGH, FL, 33637	authorized	4.5	ES45MP-1	1	28° 3' 33.6" N	82° 22' 18.5" W	3700	4200	1/3/35		
E050135	SES-RWL-20200220-00171	Verizon North LLC	IL	1	ROUTE 9 WEST, BUILDING3 BLOOMINGTON, MCLEAN,IL, 61704	authorized	4.5	4.5M	1	40° 29' 34.8" N	89° 2' 57.0" W	3700	4200	1/3/35		
E050135	SES-RWL-20200220-00171	Verizon North LLC	IL	1	ROUTE 9 WEST, BUILDING3 BLOOMINGTON, MCLEAN,IL, 61704	authorized	4.5	ES45MP-1	1	40° 29' 34.8" N	89° 2' 57.0" W	3700	4200	1/3/35		

Exhibit D

Relocation Cost Estimates

Expected Total Costs for one new Satellite delivered in-orbit				
1	One Single Launch C band Satellite			\$150,000,000
Relocation Program Management				
1	Cost to manage satellite relocation			\$300,000
Satellite Repackings (Engineering and execution Labor)				
1	113°W satellite Repacking	\$350,000	\$350,000	
1	115°W satellite Repacking	\$250,000	\$250,000	
1	117°W satellite Repacking	\$350,000	\$350,000	
1	172°E satellite Repacking	\$100,000	\$100,000	
Earth Stations				
No polarisation change				
Qty. [antenna]	Retuning simple feed Frequency range 4.0-4.2 GHz	Cost per unit	Estimated cost	Total
272	Passband Filter / PLL LNB	\$630	\$171,360	
	Filter installation*	\$3,800	\$1,033,600	
	Retuning	\$650	\$176,800	
\$5,080				
Retuning dual feed Frequency range 4.0-4.2 GHz				
Qty. [antenna]	Cost per unit	Estimated cost	Total	
272	Passband Filter / PLL LNB for dual-feed antenna	\$2,000	\$544,000	
	Filters installation*	\$4,200	\$1,142,400	
	Retuning	\$950	\$258,400	
\$7,150				
Retuning - Simulsat antenna Frequency range 4.0-4.2 GHz				
Qty. [antenna]	Cost per unit	Estimated cost	Total	
104	Simulsat 5, dual polarity Feed Assembly	\$2,500	\$260,000	
	PLL LNB	\$510	\$53,040	
	Filter	\$750	\$78,000	
	Filter installation*	\$10,000	\$1,040,000	
\$13,760				
Polarization change				
Qty.	Polarization change Frequency range 4.0 - 4.2 GHz	Cost per unit	Estimated cost	Total
40	Uplink filter	\$950	\$38,000	
	LNA / Block downconverter	\$600	\$24,000	
	Change polarization	\$500	\$20,000	
	Temporary station for dual illumination (3 months)	\$90,000	\$3,600,000	
175	Passband Filter / PLL LNB for Rx antenna	\$630	\$110,250	
	Filter installation *	\$3,800	\$665,000	
	Retuning	\$650	\$113,750	
175	Passband Filter / PLL LNB for dual-feed antenna	\$1,250	\$218,750	
	Filters installation*	\$4,200	\$735,000	
	Retuning	\$950	\$166,250	
Antenna replacement				
Qty.** [antenna]	Cost per unit	Estimated cost	Total	
200	\$5,500	\$1,100,000		
150	\$6,500	\$975,000		
\$2,075,000				
Antenna Supporting Equipment				
Qty.** [antenna]	Cost per unit	Estimated cost	Total	
350	\$10,000	\$3,500,000		
\$3,500,000				
Dual Illumination Capacity Cost				
Duration in month	Dual illumination Capacity Cost	Cost per unit	Estimated cost	Total
3	3 Month dual illumination for 392.5 MHz	\$1,177,500	\$3,532,500	
TOTAL				
\$170,906,100				

*Include travel cost and labor fee

**Estimated quantities